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Solar Mass Ejection Imager (SMEI) Mission: Final Report

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14. ABSTRACT

The Solar Mass Ejection Imager experiment, launched 6 January 2003 on Coriolis, continues to detect and track Coronal Mass Ejections (CMEs). SMEI has outlived its planned 2-3 year lifetime and amassed a database of full-sky images with a 102-minute cadence recorded for almost five years. The Navy presently operates the spacecraft, provides SMEI data to AFRL, and plans to operate Coriolis for as long as its experiment, Windsat, is functional. An irrecoverable failure on its A-side electronics (March 2006) forced us to switch SMEI to B-side, which is operating nominally. Camera 3 (closest to the Sun) continually degrades with accumulated radiation dose and has run above predicted/planned-for temperatures. Periodic anneals have helped to alleviate this problem, and a severe on-board masking of hot pixels in Camera 3 was instituted in 2006. Despite these problems, SMEI has amassed a wealth of detailed images of coronal mass ejections, high altitude auroras, variable stars, zodiacal dust, and comet tail interactions with the heliosphere. SMEI has demonstrated that such an instrument can improve space weather forecasts by 30%.

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1. EXECUTIVE SUMMARY

The Solar Mass Ejection Imager experiment, launched 6 January 2003 on Coriolis, continues to detect and track Coronal Mass Ejections (CMEs). A proof-of-concept experiment, SMEI has outlived its planned 2-3 year lifetime and amassed a database of full-sky images with a 102 minute cadence recorded for almost five years.

After its first year of operation, control of Coriolis was transferred from the Air Force Space Test Program to the Navy, who operates the spacecraft today and provides SMEI data to AFRL, as well as executing routine operations, such as calibrations, mask uploads, resets, etc. at no charge to the Air Force Research Laboratory. The Navy plans to operate Coriolis for as long as its experiment, Windsat, is functional.

Because of an irrecoverable failure on its A-side redundant electronics (March 2006), SMEI has been switched to B-side, which is operating nominally. Camera 3 (closest to the Sun) has run above predicted/planned for temperatures and performance continually degrades with accumulated radiation dose. In addition to periodic anneals to help alleviate this problem, we have instituted a severe on-board masking of hot pixels in Camera 3 since 2006.

Despite these problems, SMEI has amassed a wealth of detailed images of coronal mass ejections (CMEs), as well as other phenomena, such as high altitudes auroras, variable stars, zodiacal dust, Gegenschein, and comet tail interactions with the heliosphere. SMEI has demonstrated that such an instrument can accomplish a 30% and greater improvement in space weather forecasts.

At the time of this report, the SMEI team is working with the Air Force Space Weather Agency to incorporate SMEI data into their operational forecasts. A workshop on future heliospheric imaging missions to meet DoD needs was held in April 2007 at the Air Force facilities at the National Solar Observatory at Sunspot, NM, at which the Air Force and Navy agreed to work together to field the next heliospheric imager.

2. PERFORMANCE

2.1 Hardware

A complete description of the SMEI hardware can be found in [Eyles et al. 2003].
The Coriolis satellite is in a dawn-dusk, Sun-synchronous, circular polar orbit at an altitude of 840 km. The inclination of the orbit is 98° relative to the equatorial plane. The sensor suite consists of three carefully baffled CCD cameras, each covering a narrow 3° × 60° strip of the sky. The cameras are mounted on the satellite with their fields of view aligned end-to-end and slightly overlapping, so that the field of view swath is a 3° wide strip extending 160°, an approximate great circle with the ends near the orbit axis. Since the satellite is zenith-nadir pointing, during each complete orbit the cameras' fields of view sweep out nearly 90% of the entire sky. Gaps include a zone of exclusion of 20° radius in the direction of the Sun, a smaller circle in the anti-solar direction, and shuttered areas due to sunlight in the sunward camera. The instrument operates continuously, so the data set comprises a sequence of orbit images, 14 per day. It has maintained about an 85% duty cycle interrupted only for periodic calibration and diagnostic purposes, and occasionally for software anomalies and telemetry problems. The unfiltered CCDs have a red-biased spectral response from ~ 500 to 1100 nm peaking at 700 nm.

2.1.1. SMEI DESIGN PHILOSOPHY

SMEI was conceived and developed as a relatively low cost, 'proof-of-concept' instrument with a 2-year design lifetime (original requirement) and the aim of continuation through a third year. It has completed almost five years of operation.
SMEI designers baselined use of hi-rel mil-spec parts rather than full space-quality, that is, integrated circuits to MIL-STD-883 Level B; MIL-38535 where possible, and used discrete semiconductors to JANTX; JANTXV where possible. The design used parts of known radiation tolerance rather than rad-hard to meet a 10 krad total dose spec at the component level. Parts with known radiation tolerance were used where possible, with total dose testing performed on parts of unknown radiation tolerance using a Co60 source.
Local shielding for parts of low radiation tolerance, *e.g.* the DHU Processor was used, along with parts of good "single-event" tolerance (SEU and SEL) where known.
There was no formal SEU/SEL tolerance requirement or testing.
Examples of measures taken to enhance and ensure reliability given 'compromises' on parts quality, etc. included:

- Two fully-redundant Data Handling Units (DHUs) - 'B' system in cold-redundancy.
- Redundant spacecraft interfaces: DHU-A power from spacecraft PDU-A; DHU-B from PDU-B, and each DHU has interfaces to spacecraft MIL-STD-1553B Bus A and Bus B. Also, a provision of an internally-generated 1Hz sync pulse if the spacecraft 1Hz is lost.
- Careful design for protection against latch-ups (SELs) - Current limiting at component, group of components or PCB level, by active current trips and/or limiting resistors as appropriate.

- Each Camera is 'single string', but careful attention paid to fault-tolerance of interfaces with DHUs. There is an independent power converter system in each camera and propagation of failures between cameras is not allowed.
- Eight redundant copies of on-board software in write-protected E2PROM selected in a robust manner by re-asserting 'DHU On' relay command.
- Capability of patching on-board software using write-enabled E2PROM as a provision for recovery from a 'bad' uplinked patch.

2.1.2 OVERALL PERFORMANCE FIRST THREE YEARS

There were no hardware failures until 31 March 2006. Until then, the DHU B had never been switched on. There is no evidence of bit-errors in copies of on-board software in E2PROM, SEL events in DHU, and no significant changes in voltage and current Analog Monitors (table below).

Table 1. DHU Voltage and Current, 2003 and 2006

	Feb 2003	**Feb 2006**
Processor PCB 5V	**4.94 ± 0.05 V**	**4.94 ± 0.05 V**
Processor PCB Current	**Quiescent 0.32 ± 0.05 A Peaks to 0.9 A**	**Quiescent 0.32 ± 0.05 A Peaks to 0.9 A**
Instrument Current (excluding De-Icer Heaters)	**0.72 ± 0.05 A**	**0.72 ± 0.05 A**

DHU temperatures have increased (table below). Camera 1 and 2 CCD temperatures are within optimal operating range; Camera 3 is running hot.

Table 2. Electronics Temperatures, 2003 and 2006

	Feb 2003	**Feb 2006**
Processor PCB Temperature	21.5 ± 1.0 C	25.2 ± 0.8 C
DHU Power Supply Temperature	18.6 ± 1.0 C	21.0 ± 0.6 C

2.1.2.1 DHU Processor Performance

- Data throughput from cameras required a fast processor (11.71 μs per pixel for each of 3 cameras).
- Selected processor was Texas Instruments SMJ320C50 DSP
  - 20 MIPS performance (with 20Mhz clock – actually de-rated to 19Mhz)
  - Available to MIL-STD-883 Level B, but not rad-hard
  - Limited total dose data, no SEU/SEL data
  - Total dose tested in-house, 4 – 5 krad tolerance

  - Local shielding to improve TID tolerance, current limiter for SEL protection
  - Attempted to provide protection against crashes using watch-dog timer
- DHU upsets and anomalies have occurred fairly frequently
  - Usually require DHU reset, only occasionally fixed by going back to Configuration Mode
  - Have never required powering off DHU, so no SEL events in DHU
  - Cannot exclude possibility of some SEL events in cameras since cameras are power-cycled on DHU reset, but unlikely
  - The CODE_VER telemetry parameter increments on DHU reset, provides count of resets.

The average rate of resets is ~ 1 per 2 weeks, with no evidence of a significant increase in rate after the first 6 months.

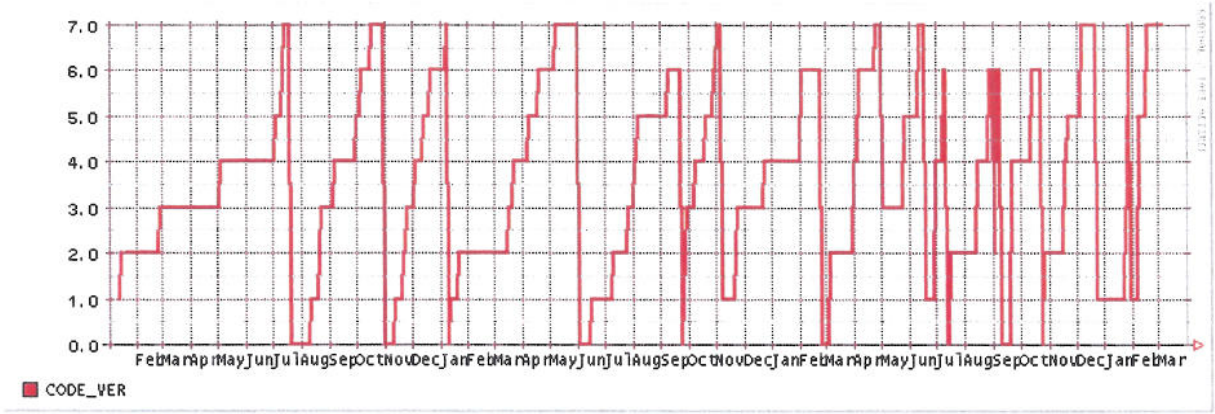

Figure 1. Data Handling Unit Resets Required during First Three Years

Table 3. DHU Re-Boots Required, by Quarter, 2003 to 2006

	Number of Re-Boots		Number of Re-Boots
1-Feb-03 to 30-Apr-03	2	1-Aug-04 to 31-Oct-04	11
1-May-03 to 31-July-03	3	1-Nov-04 to 31-Jan-05	4
1-Aug-03 to 31-Oct-03	5	1-Feb-05 to 30-Apr-05	4
1-Nov-03 to 31-Jan-04	7	1-May-05 to 31-July-05	8
1-Feb-04 to 30-Apr-04	9	1-Aug-05 to 31-Oct-05	9
1-May-04 to 31-July-04	4	1-Nov-05 to 31-Jan-06	5

2.1.2.2 Thermal Hardware

Over the course of the first three years, DHU temperatures have increased by ~ 2 – 3°C. The best indicator of the overall camera temperature is the mirror temperature. There has been no evidence of a significant upward trend in Camera 1 or 2. Camera 3 temperatures have increased by ~ 3°C.

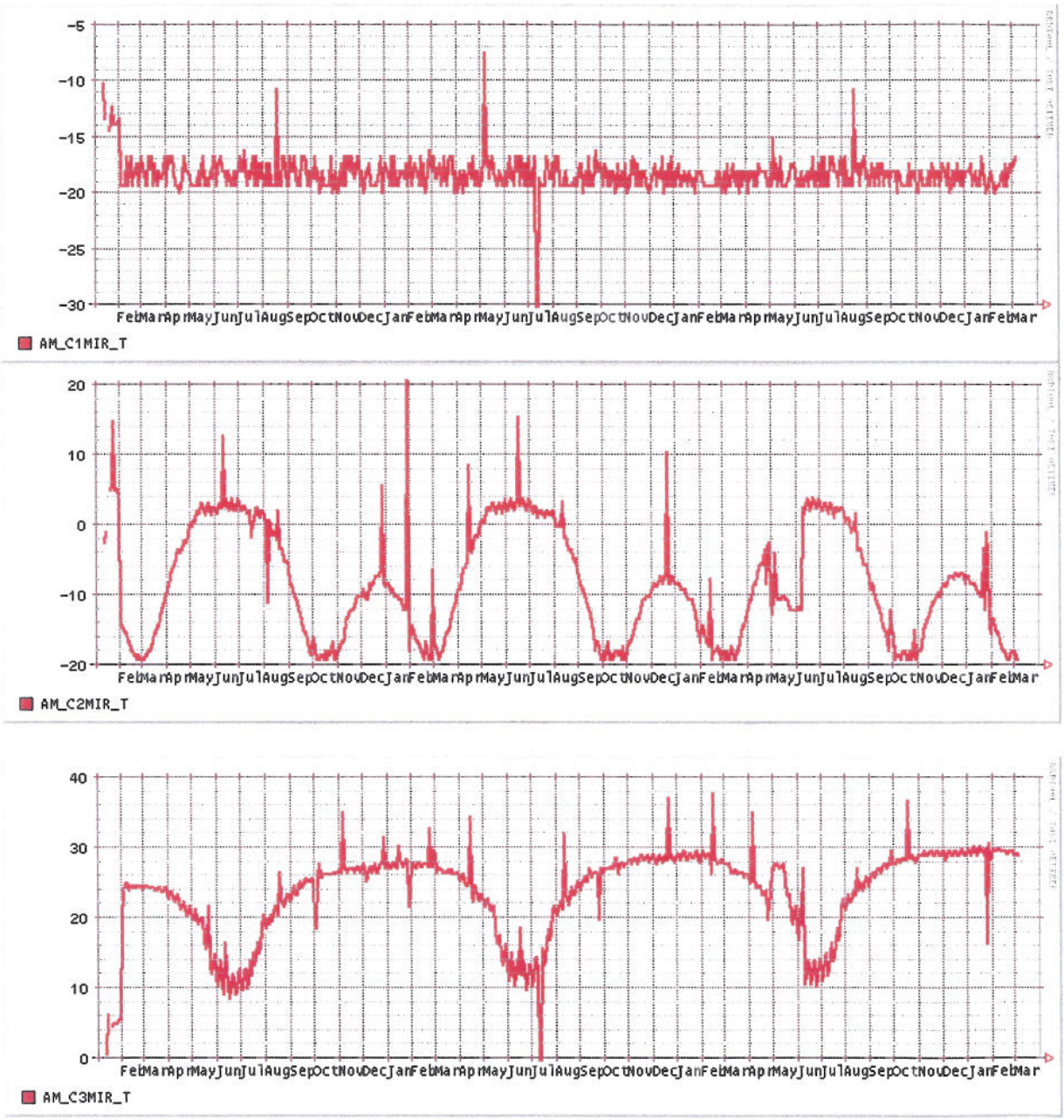

Figure 2. Temperatures of the Camera Mirrors, for (top to bottom) Cameras 1, 2, and 3.

CCD Temperatures experienced ~ 1 – 2°C increase over 3 years in Camera 3; less in Cameras 1 and 2.

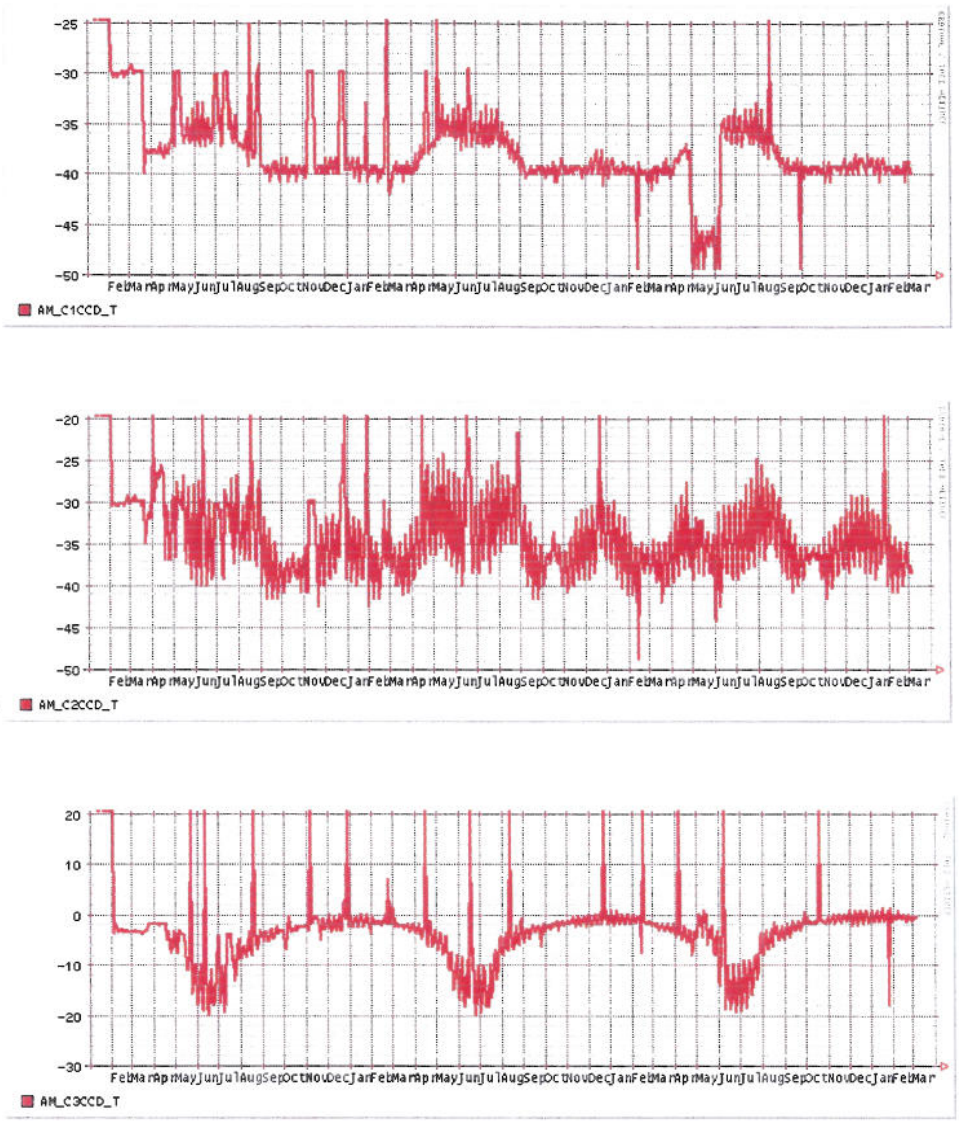

Figure 3. CCD Temperatures for (top to bottom) Cameras 1, 2, and 3.

CCD dark charge is measured in closed shutter calibrations, using the mode of pixel readout value (rather than the mean) to avoid biasing by hot pixels.
Camera 1 shows progressive increase due to radiation damage from ~ 1 ADU to ~ 6 ADU, reduced by periodic annealing at ~ 45 – 50°C.

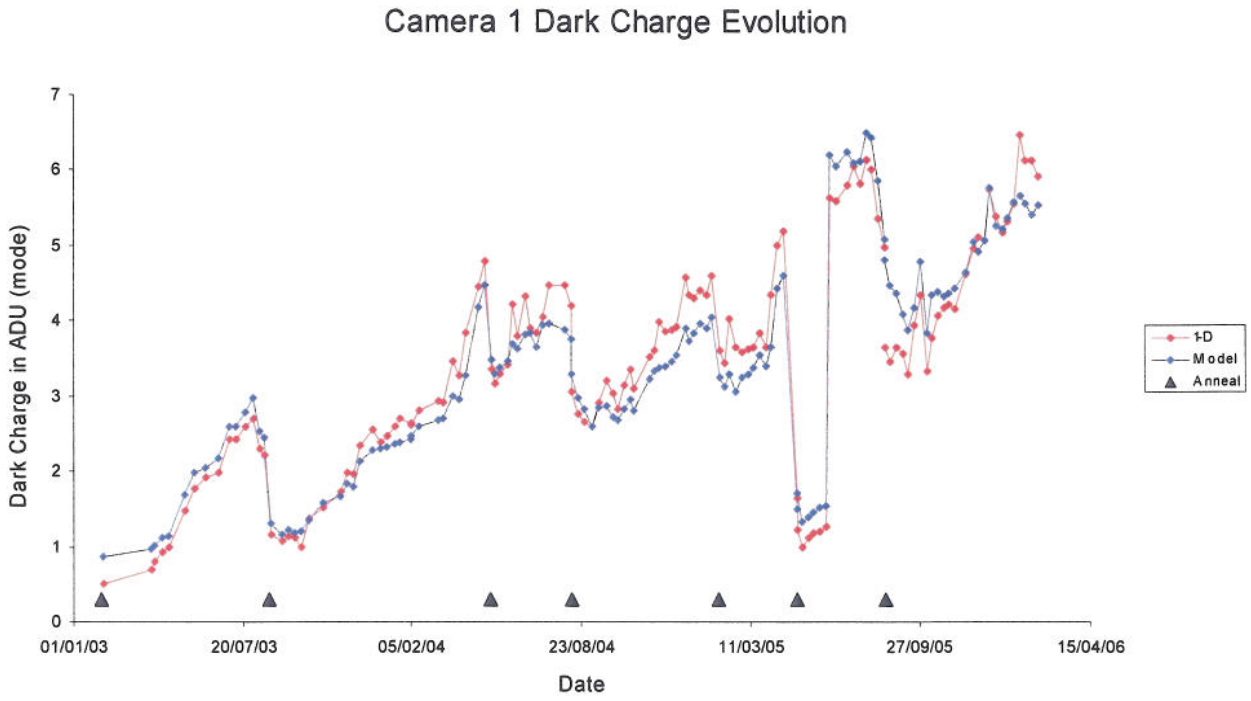

Figure 4. Camera 1 Dark Charge Evolution

The model is fit to $I_{dark} = (a_0 + a_1 t + a_2 \delta t) \exp(-a_3 T)$, where t is time since launch, δt is time since last anneal and T is temperature (K).
Camera 2 shows progressive increase from ~ 2 ADU to ~ 8 ADU, reduced by periodic annealing at ~ 50°C.

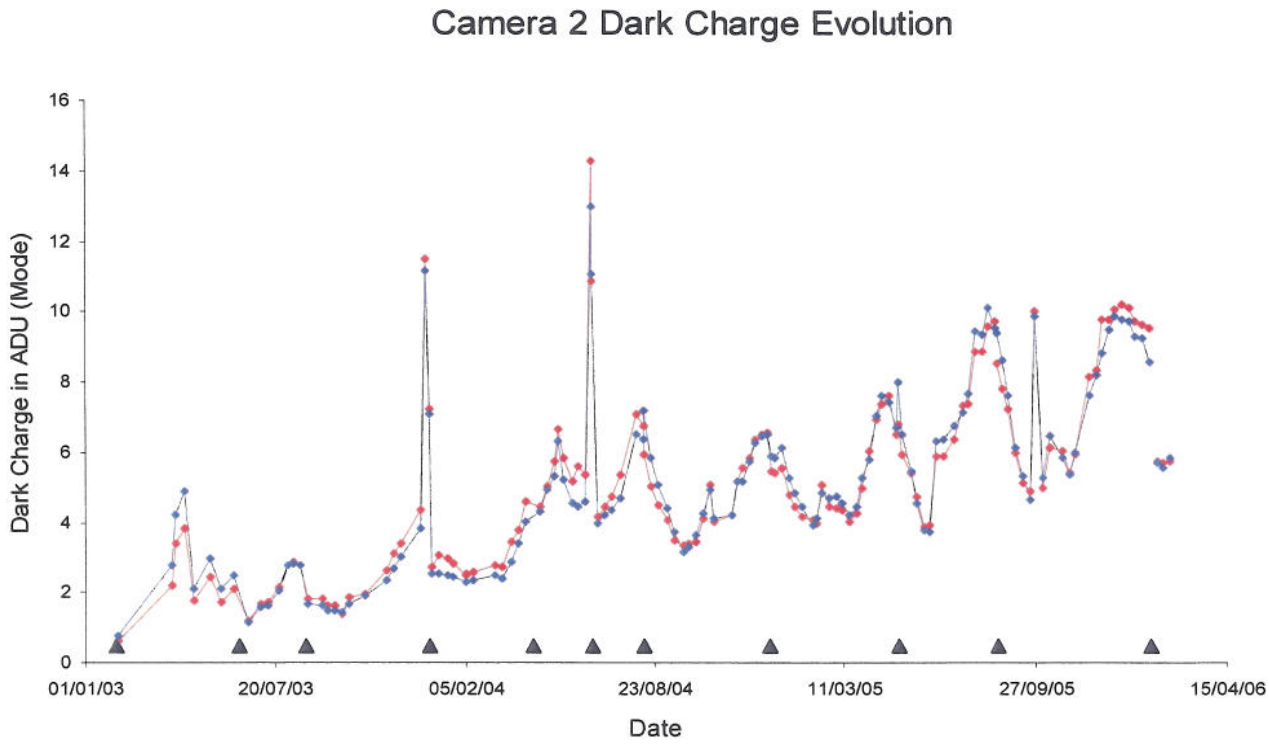

Figure 5. Camera 2 Dark Charge Evolution

Frequent annealing at ~ 80°C is not very effective.

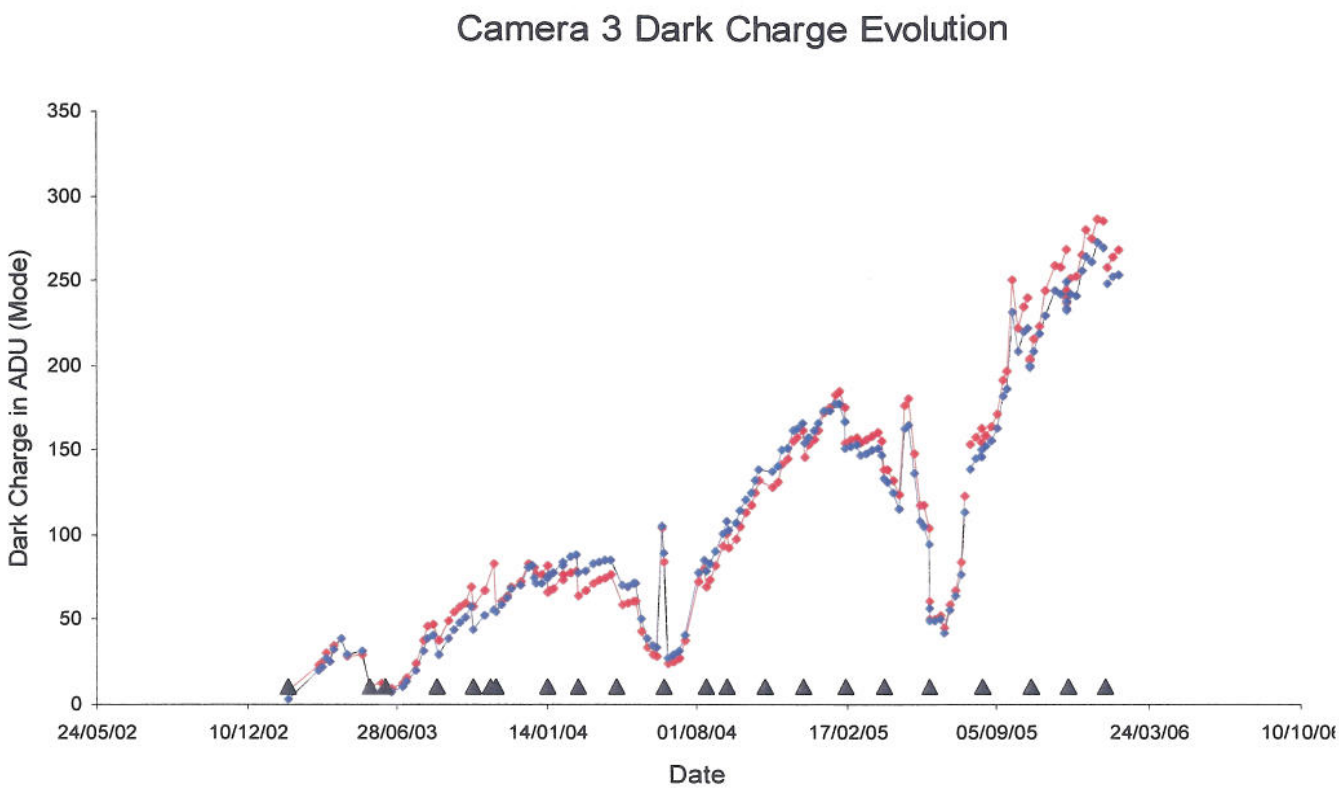

Figure 6. Camera 3 Dark Charge Evolution

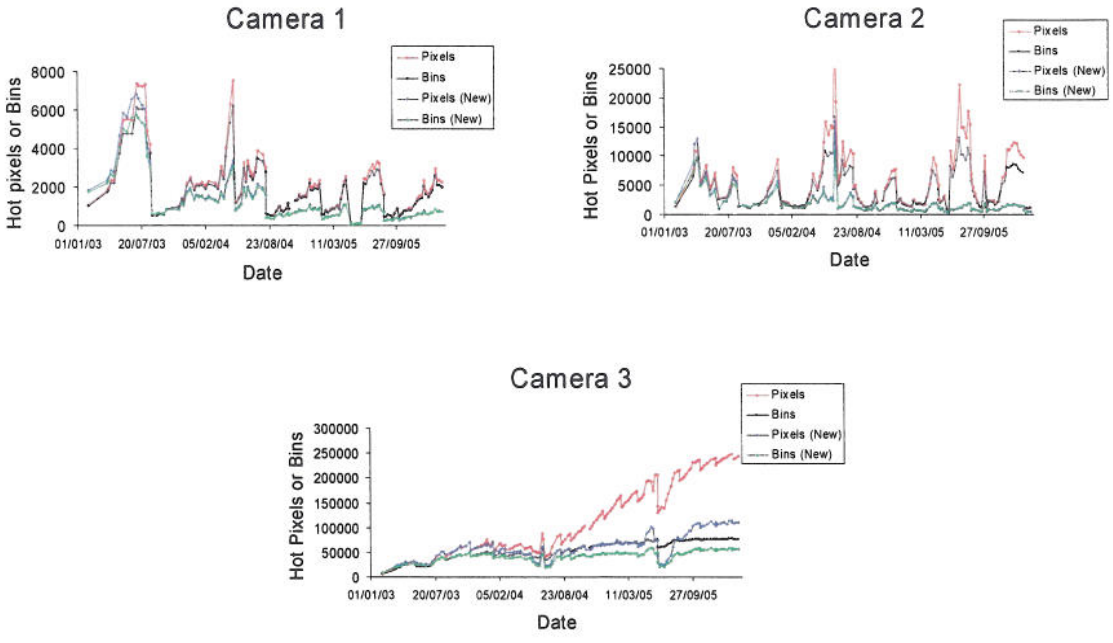

Figure 7. Evolution of the Number of Hot Pixels for Each Camera

Although Camera 1 and 2 CCD temperatures are quite acceptable, -40 to -50°C would be better. The SMEI thermal model incorrectly predicted temperatures which led the team to mask off portions of the radiators on Cameras 1 and 2 so that epoxies would not become brittle. It was also considered for Camera 3's radiator, which if implemented, would have been disastrous on the Camera 3 performance. Masking Camera 1 and 2 radiators was unnecessary. Camera 3 CCD temperature is a continuing and worsening problem. It has been mitigated by periodic annealing and hot pixel masking, but the camera will continue to degenerate from radiation damage. Cameras 1 and 2 experience the same radiation dose as Camera 3 but they are operating within an optimal temperature range.

2.1.2.3 On-Board Masking

To quantify the improvements of onboard masking of Camera 3, noise estimates were made using orbit-differenced images, i.e. an image where the previous orbit was subtracted. Since this image product is primarily used for tracking CMEs, this approach will give an estimate of the faintest CME detectable by SMEI. A section of a Camera 3 imaged area was used for this analysis which was relatively devoid of large stellar residuals from the subtraction process as well as any noticeable transients. These types of residuals can be large and produce "outliers" in the noise distribution which, in turn, affect the statistical measurements. Several patches were taken both before and after the mask was applied. The differenced pixels were plotted in a histogram and then fit with a Gaussian. The standard deviation of the Gaussian distribution gives a direct measurement of noise and the likely detection limit of a CME. The results show a reduction in the noise by nearly a factor of two, after the mask was applied. The values of the standard deviations, pre- and post- mask application, were 1.01 and 0.55 ADU. Thus the detection threshold (3σ) for onboard masking of camera 3 is approximately 1.7 ADU. We continue to use on-board masking despite its consequences for some of the collateral observations, such as stellar photometry. The improvement to Camera 3 observations could be seen in a recording of the 6 December 2006 limb event, the first CME seen in the Camera 3 FoV since implementation of the mask.

2.1.3 DHU-A FAILURE AND CURRENT STATUS

SMEI telemetry was lost a few hours after onset of an anomaly coincident with passage through the South Atlantic Anomaly (SAA) on 31 March 2006.Attempts to recover DHU-A, including: power cycling of DHU-A, exercising all eight copies of the boot-up software, attempting 'blind' commanding to switch on the de-icer heaters, using the spacecraft PDU-B to issue a relay command to switch on DHU-A, and using the spacecraft MIL-STD-1553B bus B rather than bus A were unsuccessful.
The failure was likely because of accumulated radiation damage, probably to the DSP processor itself.

Figure 8. Recording of the 6 Dec 2006 CME Event by Camera 3, after Implementation of the Hot Pixel Masking. The CME is the white arc at the bottom left.

Current Status: SMEI remained in a switched off mode (except for brief periods for recovery attempts) for nearly a month (commencing 31 March 2006). There was some risk to the optics in the cameras if sunlight penetrated to the surfaces because of an accident at the integrating facility during testing. Unfiltered compressed air was pumped into the experiment that could have laid down a hydrocarbon coating all the surfaces. When sunlight, mostly UV, hits such a material the coating can become opaque. With camera shutters almost certainly open, and further diagnostic tests exhausted, DHU redundant side B was powered up. As of this report date, SMEI, operating on the B-side is working nominally.

2.2 Data Processing

The real time data processing for SMEI was handled in-house at AFRL. A detailed description follows in section 2.2.1. The University of California – San Diego team spent considerable time working individual images for the best background subtraction possible. Their technique is described in Section 2.2.2.

2.2.1 AFRL PIPELINE PROCESSING TECHNIQUE

The AFRL pipeline (composite image) processing consists of a series of procedures that ingests the telemetry data, performs quality checks on the data, corrects the data for various instrumental and external effects, and creates several all-sky images for each orbit. The end product is a set of five Hammer–Aitoff images created for each orbit: an image derived from weighted input values, a FITS plane of the weights, an image of the observed sky using all the data, the same image using only "good" data, and a fifth image from which the stellar and zodiacal contents have been subtracted. The pipeline is able to process a day's worth of data in less than a day. AFRL provided the basic real time processing of the images, including "quick-look" images for forecasting purposes. This work was performed by Boston College contractors, Drs T. Kuchar and D. Mizuno.

2.2.1.1 SMEI Image Products

The end products of the SMEI processing pipeline are single orbit images in several sky useful projections. Each sky projection was chose to fulfill a specific mission requirement. The three standard projections are:

1. High resolution (0.2 degree/pixel) all-sky cubic projection in celestial (equatorial) coordinates.
2. Low resolution (0.5 degree/pixel) all-sky Hammer-Aitoff in (observer) ecliptic coordinates
3. Low resolution (0.5 degree/pixel) hemispherical "fisheye" projection in (observer) ecliptic coordinates

Each image conforms to the FITS astronomical standard (*Calabretta and Greisen,* 2000). All the images contain at least two data planes. The first of these consists of (Image data) × (statistical weights) and the second contains the statistical weights. This format was chosen to provide a quality estimate of each pixel. The statistical weights are the weighted sum of the number of CCD pixels at that sky location. The final image can be obtained by dividing the first plane by the second. Some of the sky projections contain additional image planes (described below) to aid image analysis. The image file names indicate the projection type, the observation date and orbit duration: PPP_ yyyy_ddd_h1m1s1_h2m2s2.FIT, where PPP is the projection, yyyy is the year, ddd is the consecutive day of the year (DOY), h1m1s1 is the UT start time of the orbit and h2m2s2 is the elapsed time.

2.2.1.2 Cubic Projection

This image projection is the SMEI archival product. Its pixel size is equivalent to that of the CCD data binned in science mode. Thus it contains sufficient resolution to produce any (lower resolution) sky projection that is not readily available. The cubic sky projection chosen for the archive is the "spherical cube" developed for the Cosmic Background Explorer (COBE, see *Calabretta and Greisen,* 2000, for a mathematical description of this projection). This projection attempts to minimize the edge distortion

that is prevalent in all spherical cube type projections. Image file names of this type are denoted by CSC (COBE spherical cube).

2.2.1.3 Hammer-Aitoff Projection

The equal area Hammer-Aitoff projection is used for displaying an all-sky image in which the brightness of a unit area is preserved regardless of the pixel distortion. Image file names of this type are denoted by S. These images are cast in ecliptic coordinates centered on the sun (the longitude coordinate of the image center is rounded to an integral value of the solar ecliptic longitude). This is the natural coordinate system for detecting and tracking heliospheric transients that originate on the Sun. Each image file contains 6 image planes to meet this end:

1. (Image data) × (statistical weights)
2. Statistical Weights
3. Orbit recast in previous day's astrometry (*i.e.* centered on [current solar longitude - 1°])
4. Current orbit Image (*i.e,.* plane 1/plane 2)
5. Image with absolute star map and zodiacal model subtracted
6. Image with a mean orbit map subtracted

Image planes 1 through 4 are provided for consecutive orbit differencing to remove the celestial backgrounds. This is an efficient way to detect fast moving transients. To ** facilitate this type of image differencing, the ecliptic longitude of the image center is set to an integral value for the current day. To avoid an astrometry shift from comparing orbits that may overlap a two-day period, the Aitoff files contain the current day's data projected in the previous day's ecliptic longitude (image plane 3). The value of the current day's longitude is contained in the FITS header parameter CTYPE1. The flux of a transient may not be preserved using consecutive orbits, if the transient does not move sufficiently from orbit to orbit.

Plane 5 contains an image with a standard stellar background and zodiacal emission already removed. This is useful for slower moving transients that may not move sufficiently to be detected with the above image differencing method. The flux of the transient is preserved in this method, however, camera and other systematic artifacts remain in this image. Future improvements in processing will account for these effects, allowing their removal.

Plane 6 contains an image where a mean background was determined from 5 previous orbits. This method was devised to reduce the effect of single-orbit transitory effects (e.g. aurora glow and particle contamination from the auroral zones and the South Atlantic Anomaly) that can be worsened in consecutive orbit subtraction. It can also aid in the detection of slower moving transients as well as preserving their flux.

2.2.1.4 Fisheye Projections

To reduce projection distortions at the ecliptic poles the SMEI data are also imaged as "fisheye" projections (i.e. zenithal equidistant, mathematically described in Calabretta and Greisen, 2000) which maintains a constant angular scale along the radius of the image. These images are also Sun-centered ecliptic coordinates with a radius of 135° about the Sun. Each image file contains four image planes, similar to those in the Aitoff images for consecutive orbit subtraction. Image file names of this type are denoted by F.

A second version of the above fisheye images is produced to help aid in "real-time" space weather forecasting. These "quick" images only contain data from cameras 2 and 3 and do not incorporate enhancements found in the Aitoff or the other fisheye images. They also contain only two image planes (i.e. the first two planes found in the Aitoff and ** fisheye images) cast in the current day's ecliptic longitude. Thus these images require significantly less pipeline processing time. These image file names are denoted by ARC.

2.2.2 UCSD PROCESSING

Detailed image processing using both pre- and post-data to remove background was accomplished by UCSD contractors. A description of their techniques follows in Sections 2.2.2 to 2.2.5. Further details can be found in Jackson et al 2004.

2.2.2.1 Data Frame Conditioning

The basic corrections to the data in the pipeline processing are as follows:
1. *Rice-corrupted pixels*: Up to four of the final pixels in the data stream for a frame may be corrupted by the Rice compression. These pixels are removed from consideration..
2. *Bad pixel mask*: A bad pixel mask is determined from weekly on-orbit calibrations. Approximately one third of the pixels in camera 3 are identified as "hot" or "flipper" pixels due to the elevated focal plane temperatures. These pixels are omitted from further processing.
3. *Moon and planet detection*: Entire frames contaminated by the Moon and Venus are flagged as bad so that they can be discarded. 4. *Saturation detection*:Regions of excessive pixel saturations and anomalously elevated levels are checked and affected frames are flagged as bad so that they can be discarded.
5. *Position tagging*: The pixels are assigned right ascension and declination coordinates.
6. *Dark offset removal*: The bias and dark charge are computed from the appropriate columns and removed from the data.
7. *Spike detection and removal*: Pixels with locally anomalously high values are detected and flagged in a bad pixel mask applied to each frame.
8. *Large scale flatfields*: UCSD flatfields are applied.
9. *On-board flat-field equalization*: Frames that have not been flat-fielded onboard the spacecraft are multiplied by 0.75 to make them consistent with data frame levels where on board flat fields have been applied.
10. *Geometric corrections*: Focal plane projection effects as described by UCSD are applied.

11. *Excessive median-gradient detection*: Normally the median of the response distribution does not increase by more than about 1ADU from frame to frame for a given camera. Frames whose median increases by more than 10 ADU from the previous frame are flagged as bad so that they can be discarded.
12. *Sub-sampling the focal plane*: Only half (2.5◦) of the data from the 5◦-wide in-scan field of regard of the CCD that is transmitted from the focal plane is used in the imaging. The accepted data were identified by the UCSD flat field corrections.

2.2.2.2 Image Construction

A relatively high-resolution all-sky map image is constructed from the position tagged data, for each orbit, in a fixed projection that (ideally) would have no preferred direction. This image is then re-sampled onto the (lower resolution) Sun centered Hammer–Aitoff projection. An advantage to this approach is that we can easily re-project the higher resolution image created from given orbit into different representations since the re-sampling is a faster operation than the basic image construction. This is useful, for example, in using difference images between successive orbits to identify transient phenomena such as CMEs, as we can always make two orbits in the same sidereal projection, which is necessary to remove stars in the difference image.

The COBE Quadrilateralized Spherical Cube (CSC) (Calabretta and Greisen, 2002 defined the CSC FITS standard) is used for the high-resolution fixed projection images. This is a projection in which the sky is divided into six flat square faces. The projection for each face is designed such that the distortion and deviations from the pixel equal-area condition are minimized. The 12 arc min (0.2◦) pixel size of the SMEI science data is adopted for the pixel size in these high-resolution images.

The point response function is quite asymmetric especially in the in-scan direction. Since the 1° program requirement for resolution allows data smoothing, one can use the transpose of the point response function to smooth the data while projecting it onto the COBE cube. Such smoothing of the data produces an ovoid shape for the point response function with axes of about 1◦ × 0.5◦ in the in-scan and cross-scan directions, respectively. The transpose response function is smoothed with a 0.9° box averaging in the cross-scan direction such that the point response function is circularly symmetric after the filter function is applied to the data. The filter function is centered on each of the COBE cube pixels and the observations immediately around that point are averaged with weights defined by the filter function. Thus, the transpose plus cross-scan averaged filter function not only smoothes the data but projects it on the proper grid. A Hammer–Aitoff image is created for each orbit with the Sun at the center of the image. A 0.5◦ pixel for the Hammer–Aitoff images is selected, as this is the Nyquist sampling interval for 1◦ resolution specified by the program. The ecliptic coordinates of the Sun are rounded to the nearest integer and the data is projected onto the Hammer–Aitoff image with 0.5◦ pixel spacing using a smoothing filter. The final Hammer–Aitoff files contain 5 image planes: the "weighted data" and "weights" planes for the "good data" only (these planes are the actual products of the image construction process), the "good data" and "all data"

images in true sky values (dividing the weighted-data plane by the weights plane), and the background subtracted image.

2.2.2.3 Galactic Background Subtraction

Camera 1 and 2 measurements were obtained from orbits sampled approximately every 10 days over a 108-day period. The observations were filtered with the modified transpose of the point response function and imaged onto a COBE-cube. The major planets have also been removed by excising a small box around them. After removal of the zodiacal light model, the processed images are averaged together. The result is a COBE-cube representation of the sidereal sky. This image is subtracted from each COBE image for a single orbit and the result is re-gridded to the Sun-centered Hammer–Aitoff projection.

2.2.2.4 Zodiacal Background

The zodiacal module of the Celestial Background Scene Descriptor (CBZODY 6 – Noah and Noah, 2001) is used to compute the zodiacal background. The module includes a modified form of the Reach, Franz, and Weiland (1997) dust bands component, which was found to predict too much infrared flux at smaller elongations (Price *et al.*, 2003) and in the SMEI observations. Thus, only the cloud component is used. The zodiacal model is computed at the pixel centers of the Sun centered Hammer–Aitoff projection for a given orbit, rather than the COBE cube, as the scale lengths for this phenomenon are large and this significantly improves the speed of calculation. Since the predicted zodiacal image is computed in units of MJy sr−1, the best fit scaling between the model and observations provides an initial calibration, 1 MJy sr−1 = 1250 analog to digital unit (ADU).

3. OPERATIONS

The SMEI experiment was launched from Vandenberg AFB on the last Titan II rocket to be sent into space. It shares the Coriolis spacecraft with the primary experiment, WindSat, operated by the Navy. Spectrum Astro, Inc. was the spacecraft vendor. ??? Integration and testing were accomplished first at the [SAI] facility in Gilbert, AZ, then ? moved to the Naval Research Laboratory facility in Washington DC. The first year of the Coriolis mission was operated by the Air Force Space Test Program (STP), and then operations transferred to the Navy IPO control. The Navy continues to provide SMEI data to the AFRL Space Vehicles Directorate at no cost to AFRL.

In 1999 AFRL management of SMEI passed from Dr. S. Keil to Dr R. Radick and Ms. J. Johnston. Mr. P. Holladay is the current Systems Engineer and Chief of Operations, replacing Mr. P. Anderson (Boston University) in 2003. Lt S. Figueroa assisted with integration, testing and early operations. Lt J. Hewitt served as Chief of Operations from 2005 to 2007. Drs T. Kuchar and D. Mizuno (both of Boston College) wrote the SMEI real time processing software to generate the all-sky maps. Ms Johnston currently serves as the Program Manager and Principal Investigator. SMEI data is currently archived at

the AFRL Sunspot, NM facility and current and archived sky maps and movies appear on a website.

Since the launch of Coriolis, SMEI operations have been performed by STP's RTD&E Support Complex (RSC) at Kirtland AFB, NM, in coordination with AFRL. The first month of operations included extensive real-time commanding to initialize the instrument components, open the Camera Doors, perform thorough checkout procedures and calibrate the instrument. Since that first month, nominal commanding has been accomplished using stored commands in text files (called tasking files) transferred [to the *from the*] RSC [from *to*] SMEI via ftp. The commands in these files execute *** weekly calibration, periodic special observations, and Camera CCD anneals as needed. As noted in Section 2.1.2.1 (DHU Processor Performance), SMEI experiences anomalies, on average, every 1 – 2 weeks, often traced to Coriolis transits of the South Atlantic Anomaly (SAA). The typical response to these anomalies is to request that the RSC to perform a reset of the SMEI DHU by executing a real-time command procedure; these requests are recorded in documents called memograms. In addition to causing anomalies, the SAA also corrupts the images of all three cameras. Hence, special observations, such as weekly calibrations, are planned for orbits that don't traverse the SAA.

Each SMEI Camera may collect images in any of a number of modes, depending on the purpose of the observation. The historical record of what specific mode each of the cameras was in at a given time since launch is a spreadsheet called the Configuration Log (config log.xls, see Appendix C). The log lists date and time, mode number, mode parameters, observation duration, and any associated comments for each observation. A brief description of each column of the spreadsheet is provided below.

- Rev # or UTC(hex): lists either the orbit number (since launch) or the time (in seconds since epoch, hexadecimal) of the start of the observation.
- Date
- Julian Day
- Time (Zulu)
- Camera parameters
    - Mode: Pre-defined mode number (0 through 15) or Dynamic Configuration mode number (DYNxxx). Mode 0 corresponds to the cameras being powered off; Mode 1 corresponds to the camera in Standby Mode. Specifics of each mode are listed in the subsequent parameters.
    - CCD Bin'g: The cameras may operate at three distinct resolutions, defined by how the CCD pixels are binned in producing the image. Normal binning mode takes a 4 × 4 bin of pixels and combines their response into one value. High-Resolution binning mode combines a 2 × 2 bin into one value. Engineering binning mode includes every pixel in the image (1 × 1, or no binning).
    - ROI: Region Of Interest. An image may consist of all the pixels on the CCD, or a subset of those pixels forming a region of interest. The region of interest is typically slightly larger than the image that the aperture casts on the CCD via the camera optics.

- FF Correction: Flat Field Correction. A gain value can be applied to each pixel to account for variations in response to a flat input. These gain values are stored in a table; applying this table of gain values is a function that can be turned ON or OFF according to this parameter. For Camera 3, this functionality has been utilized to mask (i.e., setting gain to zero) hot pixels.
- Shutter position. There is a motor-controlled shutter over each camera's aperture that automatically closes to protect the optics when a bright object is detected by that camera's Bright Object Sensor. The shutter is also intentionally set to one of its closed positions in certain operational modes to collect images that are used to determine the Flat Field Correction gain values. This latter function is what is tracked in the Configuration Log. This parameter can be set to OPEN (where the shutter only closes when triggered by the BOS), or to one of the closed positions (CLOSED or FF). In the CLOSED position, the CCD sees a dark shutter, providing a dark (or Low) flat field. In the FF (Flat Field) position, the CCD sees a white shutter, which, when illuminated by the Flat Field LED (inside the camera box), provides a bright (or High) flat field.
- FF LED: Flat Field LED (Light Emitting Diode). Set to be ON or OFF. Used in conjunction with the FF shutter position to provide a High flat field. Note that a Medium Flat Field can also be configured by having the CCD image an illuminated dark shutter.
- De-Icer set point: Each camera's CCD has a heater (called a DeIcer Heater) and a thermistor that can be used to maintain the CCD at a certain temperature. These were set high (+30°C) soon after launch to protect the camera optics from contamination during orbit raising. For normal observations, the set point is kept low enough so that the heaters don't turn on (-50°C). As camera performance has degraded with time (especially in the case of Camera 3), the DeIcer heaters have been used to anneal the CCDs, which reduces the number of hot pixels, thus improving cameras performance. To anneal, the DeIcer heater is set to be continually on (100% duty cycle) for a period of time (nominally 12 hours).

- Observation Duration (in units DD:HH:MM)
- Comments

Note that the Configuration Log has also been used to document SMEI anomalies, Spacecraft anomalies, and significant WindSat events and anomalies, each described by a color-coded entry in the Comments section.

Another aspect of operations is the science data downlink via X-band and the delivery of that data to AFRL via CoDDS (the Coriolis Data Delivery System). Coriolis science data is downlinked using two ground stations--one in Fairbanks, Alaska, and the other in Svalbard, Norway. Early in the mission, it was decided that all SMEI data should be automatically redumped once, due to frequent issues with the X-band downlink. Utilizing this scheme, data gaps are infrequent. The SMEI data latency spec of six hours is nominally met by CoDDS, but the occasional excessive latency can be attributed to one

of a few effects. First, occasionally Coriolis gets bumped from its scheduled X-band contacts, deferring to higher priority programs; because our SMEI's redump strategy--the resulting long interval between dumps produces large data files that clog the CoDDS data pipe. Then there are also data delays due to CoDDS hardware issues (faulty components). The net result of this is a data downlink and delivery system that is adequate for a proof-of-concept type program; were an operational equivalent to SMEI to be pursued, a more reliable system should be pursued.

4. SCIENTIFIC RESULTS

SMEI's mission is to demonstrate that CMEs can be tracked across the inner heliosphere and lead to improvements in space weather forecasting (Jackson et al. 2004).

Appendix A is a list of scientific papers and articles on SMEI and SMEI scientific results published to date. Besides mission applications, SMEI's unique dataset has provided insight into CME morphology and driving forces, interactions between comet tails and the heliosphere, zodiacal light, stellar variability and high altitude auroral phenomena. SMEI also observes asteroids and orbital debris and has demonstrated a capability to observe resident space objects (RSOs) such as other satellites.

4.1 Coronal Mass Ejections (CMEs)

CMEs are huge blobs of plasma, sporadically ejected from the Sun in all directions. Their frequency varies from high in solar max to low during min. Their speeds vary from one to three days to travel over 1 A.U. distance. They are significant triggers of potentially hazardous geomagnetic storms. Such storms can damage spacecraft, disrupt communication/navigation, overload power grids and expose astronauts to harmful radiation. Detection and tracking of CMEs en route to Earth is critical for accurate space weather forecasting.

However, CMEs are extremely dim and observing them at any distance from the Sun is very difficult. SMEI was carefully designed with baffles to reject stray light in order to see CMEs (extended sources) to 10^{th} magnitude. (It sees point sources to roughly 8^{th} magnitude). Appendix B is a list of CMEs compiled to date by the SMEI team.

4.1.1 STATISTICS

At the four-year mark, SMEI has observed over 300 CMEs, ~30 of which have been geoeffective (caused geomagnetic storms at Earth). Webb et al (2006) compiled a list of CMEs and their characteristics for the first year and a half of the SMEI mission. They found:

Categories by Fractions of CMEs Observed by SMEI

A) Limb CMEs	50%?
B) Erupting prominences with CMEs	>4% (>6)
C) Multiple CMEs	25%

D) Distant wide arcs ~30%
E) Concave-outward V-shaped CMEs 3% (4)
F) Earthward ("halo") CMEs ~30%

and

- SMEI observed 139 CMEs in 1.5 years and 204 CMEs in 2.5 yr
  Estimated observation rate = 0.3 CMEs/day
- Brightness: Mean = 1.7 S10 units (range = 0.4 - 10 S10)
- Spans: Mean > 40°; Range = 3° – 113°
- Durations: Mean 16.3 hr; Range = 3.5 – 70 hr
- Speeds: Angular Mean = 1.1°/hr P-approx. mean = 473 km/sec, range 51-1611 km/sec

4.1.2 MORPHOLOGY

Most of the SMEI events are likely to be associated with solar coronal mass ejections (CME), which are routinely monitored by SOHO/LASCO. In the period February 2003-September 2005 SMEI observed 171 events at times when there was good LASCO coverage. However only 120 of these events could be reasonably associated with a LASCO CME (Simnett and Howard, 2006). A further 24 occurred in association with a very weak feature seen in LASCO, which would not have been expected to propagate to the location observed by SMEI without very significant acceleration and mass concentration. The remaining 27 events were not associated with any detectable feature in LASCO. Approximately 70% of the positive associations had LASCO (projected) CME speeds between 200 and 600 km/s, while only 19% were associated with LASCO CMEs above 1000 km/s.

Howard et al (2006) tracked two events through LASCO within 30 R_{Sun} and then later as Interplanetary CMEs (ICMEs) through SMEI from 80-150 R_{Sun}. Both events were also associated with erupting filaments, followed by post-eruptive arcades that were observed by EIT, providing information on the three-dimensional (3D) direction of propagation. Assuming radial propagation, this allowed 3D reconstructions of the CME/ICME geometry, along with corrected (not sky plane projected) measurements of the distance-time (d-t) plots for each event out to ~0.5 AU. Comparing CME/ICME images in LASCO and SMEI showed that the curvature becomes more sharply concave outward (i.e. the curvature is away from the Sun), suggesting that the ICME footprints remain fixed to the Sun even at 0.5 AU. They also considered two models describing the evolution of the CME/ICMEs at large distances from the Sun: Aerodynamic Drag and Snow Plow models. There was little difference between these, and their d-t profiles matched well with the SMEI data for the first event. The second event showed a net acceleration between the LASCO and SMEI fields of view. The data can be matched for this event well by introducing a driving Lorentz Force to the drag models. ICME mass almost doubled as a result of swept up solar wind material from the Snow Plow model.

4.1.3 SPACE WEATHER APPLICATIONS

Most relevant to SMEI's original space weather forecasting mission:

- Addition of SMEI data into forecast models as a "mid-course correction" improves forecasts by greater than 30%
- SMEI observes a CME in advance of 85% of all moderate to intense geomagnetic storms
- In the first 1 ½ years, SMEI detected ~20 halo CMEs at ~1/3 of Sun to Earth distance and can detect CMEs 10 hours to 1+ days before Earth arrival
- CMEs can travel with constant speed, be decelerated, or may actually accelerate from the Sun to the Earth, making continuous observation of them critical
- Multiple CMEs ejected at the Sun may morph into a single wave front arc at distance

4.2 High Altitude Aurora

When SMEI transmitted its first images of Earthbound CMEs the SMEI team was surprised by the auroras, and in fact did not recognize them as such because the viewing geometry of SMEI was not expected to suffer from auroral obscuration of its FoV of the inner heliosphere. Mizuno et al (2005) studied this phenomenon with SMEI data; their characteristics are summarized below:

- Mainly seen during passages through polar cap regions
- Aurora observed at 840 km altitude and some examples suggest columnar material extending to 2000 km or higher
- ~1000 examples observed in first year of operation
- Commonly observed at Kp > 2, ubiquitous at Kp > 6
- Surface brightnesses a few tens of Rayleighs to several kR
- Some (24%) observed in the absence of CMEs

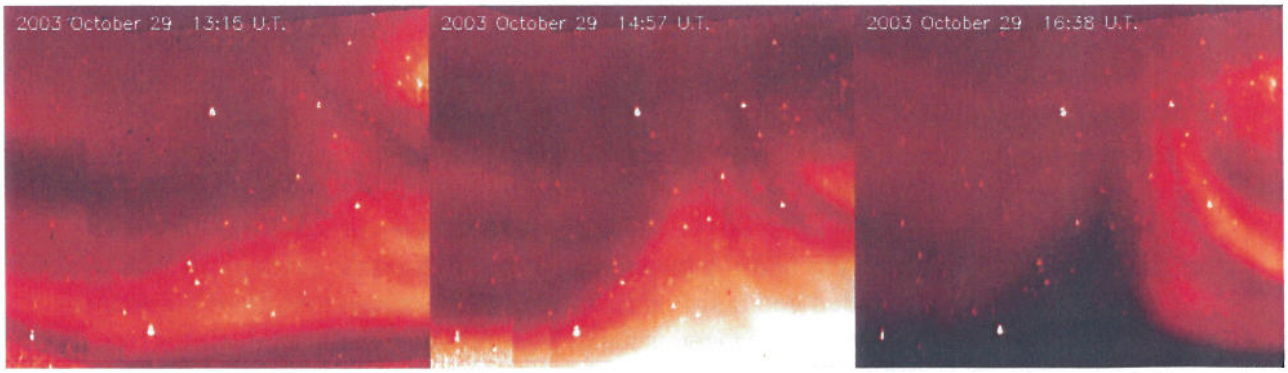

Figure 9. SMEI Observations of High Altitude Auroras, 29 Oct 2003

Any future CME tracker in Earth orbit would have to be designed to mitigate effects from auroras.

4.3 Comet Tail Disconnections

The Solar Mass Ejection Imager (SMEI) observed three bright comets during April-May 2004: Bradfield (C/2004 F4), LINEAR (C/2002 T7), and NEAT (C/2001 Q4). Investigation period reveals that two of the comets showed continual changes in their *** plasma tails. These changes are characterized by a "smokestack-like" billowing effect punctuated by the disconnections. Bradfield however was remarkably quiescent during this entire period. Also observed were spectacular tail disconnections. These observations, including the first of a CME interaction with a comet tail leading to a disruption of that tail are described in Kuchar et al. (2007, submitted). SMEI's data base is unique for large scale (some 30-40 degrees elongation) comet observations.

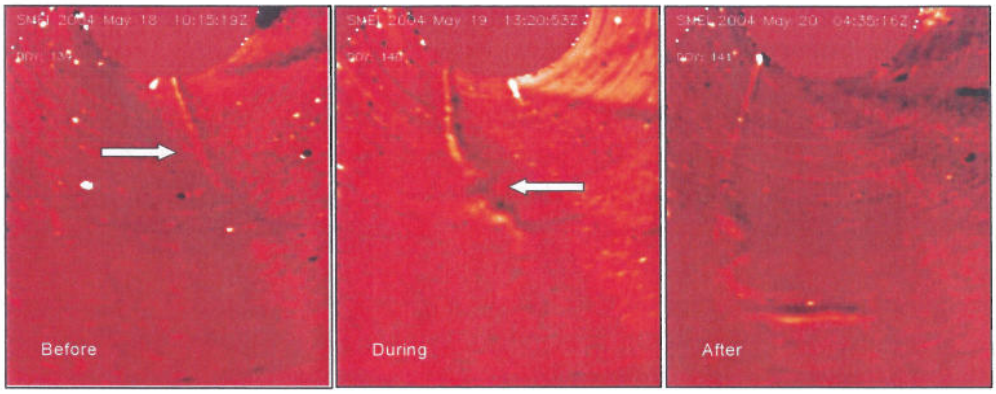

Figure 10. SMEI Observations of a Comet Tail Disconnection Event, 18 May 2004

4.4 Zodiacal Light

The SMEI visible-light cameras provide a photometric sky map for each 102-minute orbit with the objective to observe transient Coronal Mass Ejections (CMEs). Zodiacal light is a significant contributor to these maps and must be removed in the data analysis in order to detect and characterize the much fainter CMEs. Over three years of the SMEI calibration data that were taken at the highest spatial resolution were analyzed to derive the yearly averaged global distribution of zodiacal light between solar elongations of 20° and 180°. Residuals on the individual sky maps from this global average provide information on the detailed geometry of the clouds. Preliminary results of the analysis include a characterization of the Gegenschein, possible dust bands, and annual variations (Buffington, et al. 2005).

4.5 Stellar Photometry – Variable Stars

The unique SMEI dataset of continuous monitoring of the entire sky has been used to study variations in the brightnesses of stars. A new reduction and analysis method has

been used to study the Cepheid star Polaris, to take part in the discovery and study of the eclipsing binary (Penny, 2006).

4.6 Open Questions

At the time of this report, the SMEI scientific team was investigating these questions:

- What happens in the gap region between coronagraph observations and SMEI?
- What causes the chevron-shaped features? (Kahler and Webb, 2007)
- Why are some CMEs viewed by SMEI but absent in LASCO?
- Why does SMEI detect fewer CMEs than LASCO?
- What causes high altitude auroras when no CME is present in SMEI?
- What causes the 15% of geomagnetic storms for which SMEI does not observe a CME?
- What causes some CMEs to just "appear" in SMEI, camera 2?
- Which dominates CME brightness: expansion of the plasma, proximity to Sun or to the Earth, Thomson scattering sphere?
- What is the driving force behind CMEs that do not decelerate and may even accelerate through the inner heliosphere?

5. LESSONS LEARNED

5.1 Thermal

The thermal issue with Camera 3 has plagued SMEI through its mission life. Post-launch reviews of the problem by the designers and STP consultants never revealed the flaw in thermal design, however, two major factors contributed, in the author's opinion. One, despite our best efforts at requesting ITAR permission to pass information about the spacecraft interface to the British designers/builders, this critical information was delayed and initial thermal testing proceeded without it. Secondly, because of cost limitations, the payloads were never tested with a simulated sun source. Further, the thermal design was late and could not be properly reviewed by the panel of experts at the SMEI Critical Design Review (CDR). Thermal design should have been reviewed at a supplementary CDR at a later date.
Specific suggestions to correct the design include:

- Reduce thermal conductivity along baffle stack and between baffles and camera strongbox.
- Pay more attention to parasitic thermal loads between CCD and surroundings.
- Use thermo-electric cooler (2-stage Peltier) for CCD. (Peltier coolers were included in the original SMEI design but were later eliminated based on predicted cool temperatures.

The SMEI uses the instrument's heaters to anneal the cameras to alleviate some of the thermal effects, especially to Camera 3. Also, an on-board mask is applied to Camera 3 pixels before binning and transmission to Earth. While the masking makes CMEs easier

to detect and track, masking will have undesired consequences for other SMEI studies, such as CME intensity or stellar variability.

5.2 Electromagnetic Emission

SMEI failed to meet the required E&M emission specification. There was concern that SMEI would interfere with Windsat operations. With the help of Aerospace consultants to the Space Test Program (STP) emissions were reduced, not to spec, but to a level that did not interfere with the primary payload.

5.3 Aurora

The high altitude auroras observed by SMEI (sec 3.2) were completely unexpected and although a scientific discovery, render parts of SMEI sky maps useless for CME observation. If the auroras have a predominant colour, it might possible to design a filter to reduce their camouflaging effect on the sky. Their appearance does aid assessment of geoeffectivity of incoming CMEs, however.

5.4. Radiation/Particles

A major problem with the SMEI design/orbit combination is the impact of particles when crossing the South Atlantic Anomaly (SAA) and the auroral bands. This obscures large portions on the sky maps on several passes per day. A transparent window over the optics would likely diminish this to acceptable levels. A future imager based on the SMEI design might use an additional camera or employ a mechanism to change the viewing angle to capture what was missed while the imager was in the high particle zones.

5.5 Point Response Function (PRF)

SMEI mission requirements dictated a fast optical system that could image large areas of the sky with a differential photometric accuracy of 0.1%. This was accomplished by using a folded optical path that could image a large field of view on SMEI's large CCD array. Since the resolution requirement was about 1°, the optics were de-focused to produce stellar images (point sources) to that size. However, the folded light path produced a point response function (PRF) that was highly structured, approximately triangular in shape, and varied in size over the CCD array.

Unfortunately an asymmetric and variable PRF compromised the star subtraction process needed to detect CMEs. Various methods, including a symmetrization process and long baseline background images, were used to compensate for this, but bright stars (brighter than 6th magnitude) continued to pose problems as they typically left 20% residuals after star subtraction regardless of the processing method. Future designs that require low star subtraction residuals over long baseline periods need to employ a PRF that is symmetric and regular over the CCD array.

6. IMPLICATIONS FOR FUTURE (OPERATIONAL) DESIGNS

White-light heliospheric observations from the Solar Mass Ejection Imager (SMEI) experiment have shown that the structure and propagation of coronal mass ejections (CMEs) in the heliosphere are more complex than previously assumed. SMEI has operated routinely since January 2003 and is still the only instrument recording CMEs with nearly all-sky coverage.

Because all space weather is initiated by the Sun, it is critical for the Air Force to understand processes at work and their effects from the Sun. Basically, it is a study of the *forward* problem, any improvement in which will lead to multiplicative improvements downstream in actual Air Force applications, such as prediction/forecasting of occurrence, type, intensity, and duration of effects.

SMEI, despite limitations on data latency, particle hits, auroral interference, Camera 3 thermal issues, and DHU anomalies demonstrated a 30% improvement in arrival time forecasting. New designs and mission concepts should be able to raise this to 50%. The Space Environmental Effects Monitoring System, proposed for the FY10 POM cycle, includes heliospheric imagers (HIs) as part of its Spiral Three step.

It is possible to design an HI that will work in several different orbits. LEO will have to overcome the radiation environment through the SAA and auroral bands. Protective windows, an extra camera or a tilting mechanism would be needed if a SMEI-like design were employed (such a design we have named "SMEI-OV"). Use of numerous, light-weight, partial field of view instruments, employed in different orbits (COVI – Compact, Orbit-Versatile Imager) is at the other end of the spectrum. With greater resources, imagers placed at L1, or L4 and L5 (for off-center viewing) might be employed as well as the "solar diamond" orbit that places four satellites in solar orbit but encircling the Earth at 0.1 AU. to keep one between the Earth and the Sun at any given time.

7. CONCLUDING REMARKS AND RECOMMENDATIONS

Although CMEs are a major solar and heliospheric phenomenon, their structure and propagation through the heliosphere remain poorly understood. Until recently, modeling was the main method available to try to physically approximate the evolution of a CME into the interplanetary medium. Such models use input parameters obtained at the Sun by coronagraphs and X-ray, EUV, H-alpha and radio data to predict the arrival of the CME at 1 AU. Such models are often utilized by the space physics community for space weather forecasting. Complexities in the interaction of the IP medium and the ICME are generally ignored due to the lack of data on the propagation of the ICME between the Sun and Earth. Until recently, with the exception of studies using Helios photometer and interplanetary scintillation (IPS) data, observations of ICMEs between 30Rs and one AU have not been available. The Solar Mass Ejection Imager (SMEI – Eyles et al., 2003, Jackson et al., 2004) now provides us with measurements of ICMEs in this region, and has observed over 300 transients since routine observations became available in February, 2003.

The Solar Mass Ejection Imager attained remarkable success on a relatively small budget (~$10M for the instrument). It brought the first detailed heliospheric images of CMEs to the scientific community. Its unprecedented database of a full-sky image every 102 minutes for five years has utility for a wide range of research areas.

SMEI demonstrated the practicality in white light heliospheric imaging, detection and tracking of CMEs for space weather forecasting and basic research in CME phenomenology. SMEI was and is a pathfinder for future DoD operational capability.

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APPENDIX A

Publications

LIST OF PUBLICATIONS, PRESENTATIONS AND PRESS COVERAGE ON THE SOLAR MASS EJECTION IMAGER (SMEI) – AFTER 2000

PUBLICATIONS:

PRE-LAUNCH

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Appendix B

SMEI CME Summary List

Version 10 (May 2006)

Notes:
1. Confidence in CME ID or Quality of event: E(xcellent), V(ery Good), G(ood), P(oor), ?(? Event).
2: SMEI orbital time as estimated at the azimuth location of the event.
3: Azimuth is angle in deg. measured CCW from ecliptic north through east.
4. Morphological type. V-arcs & CO are concave-outward structures. Halo is implied only.
5. Angular distance from Sun; first observed to last observed.
6. The associations are incomplete; systematic surveys are pending.
7. JT: Tappin id.; Earthward: likely an Earth-directed CME

Year/ DOY	Date	Conf[1]	First Obs. Time [UT][2]	Dura-tion [hrs.]	Azimuth Location [deg/dir][3]	Angu-lar Span [deg.]	Peak Bright-ness [adu]	Type[4]	Angular Speed [deg/hr]	Point P Speed [km/sec]	Elonga-tion Range [deg.][5]	Elong. vs Time?/ Movie?	LASCO Assoc?[6]	Surface Activity?[6]	IP Shock/ Storm Assoc?[6]	Comments[7]
2003																
41	10 Feb.	P	12:32	10	44.3/NE	23.4	1.0	2 arcs	0.38	232	30.2-33.9	Y/Y				Prob. 1 CME; brief.
42	11 Feb.		21:10		../SE			arcs				N/N				JT. Wide arcs, maybe also to N.
43	12 Feb.	P	16:15	12	231/SW	20.3	0.5	arc	0.52	339	23.0-28.9	Y/Y				Subtle
44	13 Feb.	P	8:24	8.50	30/NNE	16.3	2.0	blob			38.6-36.0	Y/Y				Sm. bright blob; particles
45	14 Feb.	P	2:41	14	105/ESE	23.3	1.0	arc	0.77	494	22.6-32.3	Y/Y				Fast arc, fades
47	16 Feb.	G	10:36	13.5	96/E	75.1	0.5	loop(s)	0.44	283	23.4-29.7	Y/Y				Slow, maybe 2 events
48	17 Feb.	P	12:54	8	280/WNW	23.3	0.5	arc	0.46	288	28.7-32.6	Y/Y	Y - TH		Sh-TH	Other diffuse mat.? Particles.
50	19 Feb.	V	5:12	12	330/NW	44.4	1.0	loop/arc	1.00	602	27.8-39.8	Y/Y	2/18,0242	EP		Loop then arc; EP assoc. JT - same feature??

Year/ DOY	Date	Conf[1]	First Obs. Time [UT][2]	Dura-tion [hrs.]	Azimuth Location [deg/dir][3]	Angu-lar Span [deg.]	Peak Bright-ness [adu]	Type[4]	Angular Speed [deg/hr]	Point P Speed [km/sec]	Elonga-tion Range [deg.][5]	Elong. vs Time?/ Movie?	LASCO Assoc?[6]	Surface Activity?[6]	IP Shock/ Storm Assoc?[6]	Comments[7]
52	21 Feb.	V	2:00	44	358; 19	16; 29	1.0;1.0	sev arcs	0.72;0.76	394;414	27.0-49.7	2Y/Y	2/18,0642	Back?		Nice, wide arcs; >70 deg. JT??
54	23 Feb.	P	6:38	8.5	157/SSE	50.0	0.5	loop	0.59	379	25.0-30.1	Y/Y				Faint
55	24 Feb.	G	4:42	35	145;143	18; 25	2.0;2.0	2 arcs	0.49;0.56	314;348	20.5-33.7	2Y/Y				Very narrow; 1 or 2 CMEs?
55	24 Feb.	?	12:48									N/Y				Not a CME? Moon glare?
58	27 Feb.	P	17:11 (JT)		SSE			arcs				N/Y				Faint arcs in Cam2. JT??
60	1 Mar.	G	19:12	13	329/NW	10.3	2.0	blob	0.40	254	26.2-31.3	Y/Y	2/27,2108	EP?		Sm. bright blob
60	1 Mar.	E	21:53	25	130/SE	62.6	1.0	loops	0.76	450	24.7-45.0	Y/Y	2/28,1830	EPL:1800		Large loop complex; SE EPL
62	3 Mar.	G	6:04	7	125/SE	62.6	1.0	arc	0.56	354	26.1-29.7	Y/Y	?	?		Faint arc ff. above
63	4 Mar.	P	2:08	17.5	112/ESE	13.5	0.5	arc	0.34	200	31.8-37.9	Y/Y				Maybe continuation of above
63	4 Mar.	G	16:10	29	85/E	97.0	0.5-1.0	loop	0.77;1.05	462;682	21.8-44.2	Y/Y				Nice wide loop; moon interferes
66	7 Mar.	P	14:06	10	335/NW	5.4	0.5	blob	0.47	300	26.2-31.0	Y/Y				Sm. and faint blob; real?
71	12 Mar.	P	8:54	7	44/NE	4.9	0.5	blob	0.55	374	19.2-22.8	Y/Y				
72	13 Mar.	P	0:27		NNE			arcs				N/Y				Same but brighter E-W motion; noisy; Cam2
72	13 Mar.	V	10:24	21	20/NNE	20.1	1.5	V arc	0.60	397	16.7-28.7	Y/Y	3/12,0154	Back?		Concave-out structure
72	13 Mar.	P	20:29	7	53/ENE	31.3	0.5	arcs	1.32	855	21.2-30.2	Y/Y				2nd event? Overlaps with above
77	18 Mar.	?	2:18	12	8/NNE	11.2	0.5	?	0.73	444	28.4-37.2	Y/Y				Faint, dubious CME
78	19 Mar.	G	19:01	20	336/NW	54.4	0.5		0.67	425	21.8-34.1	Y/Y	?sev.		Sh-TH	Rising material
81	22 Mar.	P	23:16	24	350/N	44.6	0.5	arc-loop	0.65;0.86	430;526	21.6-42.3	2Y/Y				Faint arc develops to loop
	24										34.3-					

Year/ DOY	Date	Conf[1]	First Obs. Time [UT][2]	Dura-tion [hrs.]	Azimuth Location [deg/dir][3]	Angu-lar Span [deg.]	Peak Bright-ness [adu]	Type[4]	Angular Speed [deg/hr]	Point P Speed [km/sec]	Elonga-tion Range [deg.][5]	Elong. vs Time?/ Movie?	LASCO Assoc?[6]	Surface Activity?[6]	IP Shock/ Storm Assoc?[6]	Comments[7]
85	26 Mar.	G	13:33	13.5	341/NNW	44.7	1.0	2 arcs	0.65	428	19.9-28.7	Y/Y	3/25,1354	EP? 1512	Sh; St-TH	Shuttering interferes
86	27 Mar.	P	18:20	6.5	342/NNW	9.6	1.0	arc	0.66	432	22.8-27.5	Y/Y				Small, only 4 diffs
96	6 Apr.	G	17:20	8+	293/NNW	21.3	0.5		0.55-0.58	362-374	25.0-29.9	Y/Y	4/4,17:26	Back?	Sh-TH	Faint outflow
97	7 Apr.	V	16:40	12	71/ENE	53.2	1.0	arc	0.93	100	75.5-86.8	Y/Y	same?			Wide arc thru Cam2; Ulysses evt
108	18 Apr.	G	0:05	25	15/NNE	27.8	0.6	arc	0.61	197	55.1-70.7	Y/Y				Slow arc
110	20 Apr.	V	11:21	30.5	13/NNE	35.4	0.3	2 arcs	0.76;1.37	128;299	51.1-91.9	2Y/Y	4/18,1526			Trailing arc catches leading
115	25 Apr.	V	5:02	20	330/NW	49.8	1.0	V arc	1.06	621	25.7-47.1	Y/Y	4/23,0127	EP 0125	Sh-TH	Concave-out; EP assoc.
116	26 Apr.	P	13:07	15.5	311/NW	10.4	0.3	blob	0.54	337	26.5-34.7	Y/Y				Small blob, fades
118	28 Apr.	P	9:08	8.5	290/WNW	37.9	1.0	arc	0.73	481	21.3-28.0	Y/Y				Short arc, fades; moon interferes
119	29 Apr.	G	6:59	3.5	38/NE	21.8	0.3	2 loops	0.89	391	50.8-53.8	Y/Y				Faint + brighter arc;Cam2
123	3 May.	V	2:33	36	358/N	23.4	0.2	arcs	0.60	194	53.2-72.5	Y/Y				Sev. arcs; Cam2
125	5 May.	V	8:39	24	25;26;342 NE-NW	30; 20; 30.0	1.0	arcs	0.65;0.79 1.05	291;334 434	43.9-64.6	3Y/Y				Sev. bright arcs; Cam3 Eng.
133	13 May.	V	4:36	48	17/NNE	48.0	1.0	arcs	0.64	301	37.8-60.2	Y/Y	5/11,2058	Back?		1 bright arc; Cam2
140	20 May.	G	19:32	15	4/N	17.1	1.0	2 arcs	1.03	504	39.2-55.0	Y/Y				2 short arcs, one brighter
148	28 May.	E	16:53	24	284/WNW	89.1	0.5	halo	1.76	758	32.4-74.8	2Y/Y	5/28,0028	X1:X3 fla.	Sh; St, 8+	halo, mostly N, 3 parts; **Earthward**
150	30 May.	G	18:18	27	355/N	25.0	0.3	arc	0.69	324	39.0-60.2	Y/Y	5/29,0127	X1;halo		Slow arc
151	31 May.	E	16:31	8.5	248/WSW	61.9	1.0	loop	1.99	1164	27.5-43.9	Y/Y	5/31,<0354	M9,0223		Bright, fast, limb loop
153	2 Jun.	G	15:56	11	240/SW	47.1	1.0	loop	1.32	778	28.3-41.8	Y/Y	6/2,0040			Another bright, fast limb loop
154	3 Jun.	G	20:31	24;22	13; 350	54.2	0.5	loop	0.85;0.45	432;216	35.4-54.6	2Y/Y				Faint, slow loop, 2 parts
159	8 Jun.	P	22:26	11.5	9/N	22.3	0.5	arc	0.70	324	46.3-54.5	Y/Y				Short, faint arc, Cam2

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164	13 Jun.	E	0:45	3.5	305/NW	39.9	5.0	loop	1.12	715	26.1-29.9	Y/Y			Sh; St-TH	Very bright, short loop Sev. arcs in Cam3 + 2
165	14 Jun.	V	10:36	39	325;319	36.6	0.5	arcs	0.94;1.16	489;562	26.2-72.9	2Y/Y				
175	24 Jun.	G	11:10	10	260/WSW	73.4	1.0	loop	1.30	804	24.5-38.0	Y/Y				Broad limb event.
175	24 Jun.	P	22:43	7	31/NNE	15.6	1.5	arc	0.53	306	34.4-37.8	Y/Y				Bright, but brief; particles
177	26 Jun.	E	12:04	32	354/N	24.0	0.5	arcs	1.23	456	38.3-77.5	Y/Y				~3 long arcs; prob. 1 event
186	5 Jul.	G	6:05	27	345/NNW	23.3	0.2	arc	0.53	182	54.5-68.8	Y/Y				Faint, slow arc; poor data
191	10 Jul.	E	6:16	25.5	357/N	30.2	0.5	arc	0.94	411	40.7-64.1	2Y/Y				Nice, mult. events, maybe 3
		E	4:43	27	310/WNW	48.1	0.7	arc	0.65	372	28.7-47.0					Wide (80deg!), bright arc
193	12 Jul.	G	14:15	8.5	332/242	25;15	0.5	arc	0.91;0.59	518;378	24.9-42.0	2Y/Y				Same arcs(?) in Cam2+3
200	19 Jul.	P	20:35	12	351/N	19.2	0.5	arc	1.14	520	44.3-57.7	Y/Y				Faint, short arc in Cam2
204	23 Jul.	G	2:32	5	323/NW	54.0	0.5	arc	1.43	792	36.2-43.5	Y/Y				Wide arc in Cam2; cal mode
205	24 Jul.	V	20:44	12	00/N	19.1	0.5	arc	1.08	336	58.2-70.6	Y/Y				Wide arc in Cam3+2; cal
205	24 Jul.	P	20:57	10	298/WNW	37.9	1.0	arc	0.80	505	25.4-33.5	Y/Y				Slow, faint arc
206	25 Jul.	E	17:14	2+d.	305/NW	47;40	1.0	V arc	0.91-1.02	437-336	25.5-71.9	2Y/Y				Slow, bent arc thru Cam3+2
206	25 Jul.	E	23:53	10	6.5/N	73.8		arc	3.38	1222	42.0-78.1	2Y/Y				Fast, wide arc, Cam2
207	26 Jul.	E	6:37	10	88/E	73.8		arc	1.80	xxx	110-129					Wide arc to 135 deg.
207	26 Jul.	E	17:01	22.5	290;231	85;33	0.4	arc	4.89;3.42	123;xxx	61.8-121	2Y/Y				Faint, wide, fast arc thru Cam2
210	29 Jul.	V	5:48	15	350/NNW	32.5	0.5	2 arcs	1.23	567	40.7-59.8	Y/Y				2 slow, wide arcs in Cam2
214	2 Aug.	P	10:17	24	330/NW	19.0	0.3	arc	0.56	237	47.4-60.9	Y/Y				faint, short arc, Cam2
217	5 Aug.	P	7:13	13.5	324/NW	23.8	0.3	arc	0.59	256	48.8-57.5	Y/Y				Short arc fades in Cam2
218	6 Aug.	V	18:45	8.5	330/NW	36.6	0.4	arc	1.02	452	47.9-56.5	Y/Y				Wide arc ff. arc at edge Cam3
219	7 Aug.	?	2:02		NW			loops				N/N				Faint sm. Loops; missing orbits

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229	17 Aug.	P	5:04	5	52/NE	18.1	0.3	arc	0.82	331	54.0-58.2	Y/Y			Sh; St-TH	Short arc; particles
232	20 Aug.	P	19:54	8.5	268/W	72.8(?)	0.3	loop	1.08	632	31.4-40.5	Y/Y				Faint loop off limb
233	21 Aug.	P	11:03	9.5	294/NW	23.6	1.0	arc	0.67	433	23.5-29.2	Y/Y				Short arc
240	28 Aug.	G	20:44	24	340/NNW	37.0	0.5	arc	0.71	271	48.6-65.7	Y/Y				Slow, wide arc in Cam2
245	2 Sep.	P	5:53	10	269/W	58.1	0.5	2 loops	0.73	465	23.8-31.3	Y/Y				2 faint loops in Cam3
251	8 Sep.	G	10:51	7	252/SW	43.7	0.5	loops	1.00	655	21.9-28.8	Y/Y				Mult. loop struc.
260	17 Sep.	G	9:59	13.5	268/W	67.2	0.5	loop	0.48	313	20.8-28.3	Y/Y				Loop in Cam3, fades
264	21 Sep.	P	0:41	5	276/W	55.8	0.0?	loop	0.77	518	18.9-22.9	Y/Y				Loop in Cam3, fades fast
293	20 Oct.	P	4:30	10	108/ESE	10.5		arc	0.71	430	29.1-36.4	Y/Y	10/18,2230			Faint arc bet. particles. Real?
296	23 Oct.	G	11:37	7	328;190	28;31	1.0;2.0	2 arcs	1.15;1.14	668;704	27.4-40.4	2Y/Y	10/22,08;10	M4;M2	Sh; St 7	2 arcs, fade;halo? 2 assoc.EPs
297	24 Oct.	V	4:33	13.5	326;332	22.3	1.0	2 arcs	0.95;0.88	537;483	32.0-45.0	2Y/Y				2 NW arcs in Cam3
297	24 Oct.	V	6:52	10	101/ESE	107.3	0.5	arc	3.37	51	70.8-106	Y/Y	10/23,0854	X5.4		Wide arc in Cam2; see next
297	24 Oct.	V	16:08	7	294/NW	78.9	0.5	arc	4.22	xxx	82.4-112	Y/Y				Wide arc in Cam2 to 135deg.
300	27 Oct.	V	6:49	15.5	275/W	95.4	6.0	loops	1.13	703	22.4-37.8	Y/Y	10/26,1754	X1		Large loop cmpl; fades fast
301	28 Oct.	V	13:03	7; 6	297;115	37.1	1.0	2 arcs	2.57;1.86	1611;1054	21.0-44.7	2Y/Y	10/28,1054	X17,EP	Sh; 29, 9	2 arcs of halo, Cam3
304	31 Oct.	P	5:27	3+	324/NW	28.5	1.0	arc	1.71	856	43.3-49.1	Y/Y	10/29,2054	X10,2049	Sh; 30, 9	Bowed arc after anomaly; halo?
306	2 Nov.	V	21:54	8.5	267/W	50.9	2.0	loop	2.04	1322	19.3-32.8	2Y/Y	Y?		Sh; St-TH	Bright, fast loop ff. by next
307	3 Nov.	V	8:04	13.5	300/NW	50.9	2.0	loop	0.88	540	25.1-37.7		Y?			Faint, slower loop
307	3 Nov.	G	<13:09	3+	S			loop				N/Y	Y?			Loop to S, w/NW loop?; halo?
311	7 Nov.	G	4:17	21	142;89	43;28	0.5	2 arcs	3.31;1.27	279;172	68.8-91.5	2Y/Y				1 or 2 broad arcs, Cam2
318	14 Nov.	G	5:11	7	129/SE	23.0	1.0	arc	1.31	836	22.9-31.9	Y/Y			Sh; St-TH	Bright arc, extends to ENE
323	19 Nov.	E	5:48	10	150/SSE	33.5	0.5	arcs	2.34	775	50.0-73.5	Y/Y	11/18,0950		?11/20, 9	Wide arc(s) parts; not halo?

Year/ DOY	Date	Conf[1]	First Obs. Time [UT][2]	Dura-tion [hrs.]	Azimuth Location [deg/dir][3]	Angu-lar Span [deg.]	Peak Bright-ness [adu]	Type[4]	Angular Speed [deg/hr]	Point P Speed [km/sec]	Elonga-tion Range [deg.][5]	Elong. vs Time?/ Movie?	LASCO Assoc?[6]	Surface Activity?[6]	IP Shock/ Storm Assoc?[6]	Comments[7]
325	21 Nov.	V	0:17	5+	111/SE	61.9	1.0	arc?	14.8?	xxx	65.5-142	Y/Y			?same?	Broad arc sweeps thru Cam2,1 Likely **Earthward**
325	21 Nov.	G	4:19	7	324/NW	26.3	1.0	arc	1.01	615	29.1-35.9	Y/Y	11/19,0950			Short, bright arc; particles
334	30 Nov.	V	2:36	12	135/SE	54.7	5.0	arc	0.68	433	23.2-31.3	Y/Y	11/28,??	11/28,12:50		Bright arc thru Cam3. Nice.
	No events in December															
2004																
1	1 Jan.	P	6:40	29	141/SE	20.0	0.5	arc	0.71	324	39.2-60.3	Y/Y				Faint arc in Cam3+2
3	3 Jan.	V	6:04	17	92/ESE	70.5	1.0	loop	1.19	714	23.4-43.0	Y/Y				Bright, wide loop;parts., Venus
6	6 Jan.	V	0:23	7	117/ESE	34.8	1.0	loop	1.92	1094	31.1-44.3	Y/Y			Sh; St-TH	Bright, fast loop w/blob
11	11 Jan.	P	9:06	8.5	122/SE	35.8	0.5	arc	2.50	188	73.3-94.4	Y/Y				Faint, broad arc in Cam2
14	14 Jan.	G	8:11	8.5	115/ESE	30.0	0.5	blob	0.77	508	21.0-27.6	Y/Y				2 sm. arc/blobs in Cam3
21	21 Jan.	V	3:48	9	133/SE	60.0	0.5	arcs	0.71	400	35.0-42.7	Y/Y			Sh; St-TH	Sev. bowed arcs ff. by aur.
			22, 04:14	13.5	119/ESE	24.6	0.5	arc	0.98	180	67.8-81.4	Y/Y				h,t: above CME in Cam2?
22	22 Jan.	G	3:31	12	115/ESE	60.0	1.0	loop	1.26	793	21.7-36.7	Y/Y			Sh; St-TH	Loop ff. by 2nd?
23	23 Jan.	P	3:11	5.5	133/SE	7.5	1.0	blob	0.81	509	27.2-31.7	Y/Y				
25	25 Jan.	G	8:18	11	145/SSE	22.0	1.0	arc	0.72	459	24.6-33.0	Y/Y				Bad data- ~5 orbits
38	7 Feb.	P	20:10	10	58/NE	10.3	0.5	arc	0.77	379	43.3-50.9	Y/Y				Small arc, fades
40	9 Feb.	G	20:54	~36	21-32	40;51	0.5	arc	1.25	xxx	42.1-102	Y/Y				Faint, slow arc; real? Good h,t
47	16 Feb.	E	7:01	17	114/ESE	81.5	2.0	loops	0.63	401	21.9-33.0	Y/Y	2/15,0400	EPL,0:		1 slow, wide arc? Cam3 to 2
																Front+struc. loops; EIT EPL

First year totals: 105 = 13E, 25V, 30G, 34P, 3?, 1 None. So, 68 = E, V or G.

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52	21 Feb.	G	8:32	7	197/SSW	38.4	1.0	loop	1.10	717	21.7-29.3	Y/Y				Short loop, fades; Cam3 eng. JT- weak, Cam2 eng.
53	22 Feb.	P	23:38		../SE											
68	8 Mar.	E	16:42	3 d	NNW/ESE	65;25	1; 2	arcs	0.98	377	19.8-93.3	Y/Y				Series of arcs; 2 parts of halo? JT- Cam3, messy, real?
70	10 Mar.	G	19:32	10	340/NW	35.3	1.0	arc	0.70	457	22.0-29.0	Y/Y				Nice arc; brief: parts., mode chg.
78	18 Mar.	P	9:32		../NW											JT- Cam3, messy, data gap
86	26 Mar.	?	18:06	14	4/NNE	44.0	0.5	loop	0.61	370	28.6-37.0	Y/Y				Very slow loop; nonradial, real?
89	29 Mar.	P	10:41	12	326/NW	10.7	1.0	blob	0.68	427	25.5-34.1	Y/Y				Sm. fast, compact blob
91	31 Mar.	G	10:00	12.5	3/NNW	49.0	1.0	loop	0.71	447	25.0-33.8	Y/Y			Sh; St-TH	Nice loop, but fades & shutter
92	1 Apr.	G	9:42	?	N-NW	85;38	1; 0.5	loop			23.4-81.1	N/Y				Wide loop
94	3 Apr.	G	22:36	10	20/NE	54.8	0.5	arc	2.56	391	64.5-91.3	Y/Y				Ft., wide arc in Cam2, aurora at start; JT- Cam 2; auroral?
95	4 Apr.	G	7:08	20	357/NNW	60.0	1.0	arc	0.76	443	28.3-43.8	Y/Y				Arc in Cam3; same as 18:56?
95	4 Apr.	G	18:56	12	44/NE	49.8	0.5	arc	1.19	142	73.4-87.8	Y/Y				Slow, wide arc, Cam2;ff. d094 arc
101	10 Apr.	P	19:43		./NE											JT- very faint.
105	14 Apr.	P	0:45	10	25/NNE	33.5	0.5	arc	1.06	355	57.0-67.5	Y/Y				Ft. wide arc in Cam2; particles
117	26 Apr.	?	14:31	10	275/W	3.3	1.0	blob	0.47	234	43.8-48.3	Y/Y				Faint, glare, real?
118	27 Apr.	?	21:30		./NE											JT- stray light?
122	1 May.	P	5:43	18	15/NNE	30.1	1.0	arc	0.89	343	48.8-66.5	Y/Y				Ft, wide arc in Cam2, bet. parts.
125	4 May.	G	21:08	2.5d	./SE			arc				Y/N	?			JT- wide arc hits CometNeat; Tail dis-con.; likely near **Earth.**
131	10 May.	P	2:26	~27	23/NE	46.2	0.5	loops	0.66	241	50.4-69.6	Y/Y			Sh-TH	Ft. wide loop; JT- faint, complex
143	22 May.	G	13:22	24	356/N	86.5	0.5	loop	0.92	425	44.5-55.5	Y/Y				Ft., wide, peaked loop;Cam3 to 2
144	23 May.		10:28		./NNW											JT- sm., faint: same as next?

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145	24 May.	P	0:55	12	354/N	~60		arc	0.93	380	49.0-61.5	Y/Y				Ft., wide arc- Cam2 JT- blob or arc; same as next?
148	27 May.		19:27		./NNE			blob								
149	28 May.	V	6:29	27	13/NNE	47.6	1.0	V arc	0.82	295	46.5-72.1	Y/Y	5/24,2126	arcade,EP?		Brg, wide arc to Cam2 edge; be-comes concave-out; weird h,t
150	28 May.	G	4:30	24	6-10/N	34.8	1.0	arc	0.98	431	40.7-65.3	Y/Y				Follows prior evt.but less defined.
175	23 Jun.	G	9:08	10	306/WNW	51.3	2.0	loop	0.99	625	23.3-33.7	Y/Y				Brg loop Cam3, fades
181	29 Jun.	P	5:40	~12	290/NW	19.3	1.0	loop	0.76	488	24.3-30.0	Y/Y				Ft. loop bet. part. bands
192	10 Jul.	V	7:34	35	292-306/NW	48;35	1; 1	loop	1.18	576	25.6-68.8	2Y/2Y				Loops Cam3 to 2; moon, parts.
197	15 Jul.	V	19:28	1.5d	330-341/	30;11.5	0.3,0.5	loops	0.77	350	35.7-60.4	2Y/2Y			Sh-TH	Series of loops; Cam2
202	20 Jul.	G	21:28	5	278/WNW	25.1	1.0	arc	0.70	464	20.9-24.5	Y/Y			Sh; St-TH	Brief in Cam3; Parts., shutter.
203	21 Jul.	E	16:02	20	348;302	113;110	0.5; 1	loop	1.57;1.24	728;715	29.7-62.0	2Y/Y	7/20.1330 Part. Halo	M9,1230	same?	Wide loop to edge, Cam2; maybe mat. to SE Cam3. **Earthward;** storm; aurora at end
211	29 Jul.	G	3:38	17	245/SW	39.9	1.0	loop	0.77	483	22.2-35.8	Y/Y			Sh-TH	Nice but brief due to particles
1.5 Year totals:		**107 + 32 = 139.**		**15E, 28V, 43G, 43P, 6?, 4 None.**			**So 86 = E, V or G.**									
228	15 Aug.	P	8:46	10	266/W	55.1	0.5	loop	0.89	571	22.4-30.9	Y/Y				Faint loop
230	17 Aug.	P	23:24	19	313/NW	26.5	0.5	arc	0.68	299	48.6-56.8	Y/Y				Ft, slow arc in Cam2.
246	2 Sep.	P	8:34	12	266/W	34.2	2.0	loop	0.57	380	19.9-26.9	Y/A				Brg. loop in Cam3;shutter early
[			12:39	7	267/W	41.4	0.5		0.68	443	22.8-27.3	Y/F				(new meas.)]
257	13 Sep.	V	13:11	8.5	89/E	80.1	0.5	arc	3.33	xxx	77.7-106	Y/A				Wide, fast arc, fades; SE to NE
[			11:26	8.5	92/E	84.2	0.5		3.59	xxx	76.8-107	Y/F				(new meas.)]
260	16 Sep.	P	5:15	8.5	123/SE	19.3	0.5	arc	1.25	663	37.1-47.7	Y/A				Ft, short arc; fades, noisy

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[			5:19	7	120/SE	25.5	0.5		0.94	518	37.1-43.6	Y/F				(new meas.)]
264	20 Sep.	P	8:24	~20	270/W	61.4	0.5	loop	1.17	744	20.8-34.4	Y/A				Faint loop, Cam3
			15:09	12	270/W	71.5	0.5		0.79	505	22.8-32.3	Y/F				(new meas.)]
287	13 Oct.	G	18:31	15.5	333/NW	39.9	0.3	arc	0.74	188	63.6-74.9	Y/F				Broad, faint, subtle arc
306	1 Nov.	P	14:38	7	293/WNW	34.7	0.5	arc	0.57	316	37.7-41.4	Y/F				Faint, short arc in Cam3
309	4 Nov.	?	16:33	20.5	56/ENE	19.1	0.2	loop	0.54	288	36.6-47.5	Y/F				Noisy, real? Part of next halo?
310	5 Nov.	E	11:08	25.5	93/E	94.1	0.3	halo?	1.09	xxx	73.9-101	Y/F				Wide loop to 270d! **Earthward**,Cam2-1
311	6 Nov.	E	2:17	10+	122/SE	107.8	1.0	halo?	2.61	xxx	78.2-106	Y/F				2nd brighter, wide loop. **Earthward**
313	8 Nov.	G	19:22	7	313; 327	27.7	0.5	arcs	1.68; 1.79	252; 861	38.9-86.0	2Y/F				Arcs Cams3-2
339	4 Dec.	E	6:02	29	348/NNW	80.4	1.0	arc	1.33; 1.83	577; xxx	37.4-99.8	2Y/F				3 related events? Bright arc in Cam3-2
339	4 Dec.	E	6:02	17	122/SE	135.0	0.5	loop	2.31	xxx	70.4-112	Y/F				Wide loop sweeps SE-**Earthward**. Cam2; dimming behind loop!
339	4 Dec.	P	6:02	10	62/NE	25.5	0.5	loop	1.30	130	75.3-88.5	Y/F				Faint, slow loop in Cam2
354	19 Dec.	G	21:49	24	119/SE	39.2	0.3	loop	0.95	xxx	77.4-100	Y/F				Faint, fairly wide loop in Cam2
361	26 Dec.	V	7:53	32	115/SE	34.3	1.0	loop	1.42	580	32.2-80.4	Y/F				Loop Cam 3 - 2 then fades
365	30 Dec.	G	10:03	12	103/ESE	27.8	1.0	arc	0.99	636	20.9-32.9	Y/F				Bright, fast arc fades in Cam3
366	31 Dec.	G	6:23	6.5	98; 110	51.0	1.0	2 arcs	0.99; 1.15	618; 701	23.4-36.2	2Y/F				2 seq. bright arcs fade quickly
2005																
2	2 Jan.	V	2:22	32	116/ESE	66.5	2.0	arc	1.46	694	24.5-71.4	Y/F				Brg. struct. In Cam3, faint in Cam2
4	4 Jan.	P	10:14	10	120/SE	40.6	1.0	arc	0.80	517	22.1-30.4	Y/F				Fades fast; cutoff to W by shutter
6	6 Jan.	V	14:44	~39	123; 140	70.0	2.0	arcs	1.00; 2.02	600; 566	23.7-77.6	3Y/F				Prob. same evt., Cam3-2; PAs differ
10	10 Jan.	G	3:24	10	97/ESE	44.1	1.0	loop	0.96	580	28.0-38.0	Y/F				Fades in Cam3; maybe next in Cam2

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12	12 Jan.	?	18:14	14	112/SE	8.1	0.3	blob	0.82	249	59.6-70.3	Y/F				Real? Cam2; Moon in Cam3
16	16 Jan.	E	13:44	~37	79; 118	68.4	2.0	arc(CO)	1.39; 1.8	776; ~500	29.6-81.5	3Y/F				2?Arcs in E&SE,Cam3; then into C First is C.O.; **Earthward**-aurora on 17th
17	17 Jan.	G	22:37	7	319/NW	40.1	1.0	blob	2.81	1342	39.2-57.7	Y/F				Fast arc to NW, Cam3
19	19 Jan.	P	23:36	25	318; 331	45.6	0.5	blob	2.05; 2.52	1137;1280	34.5-53.4	2Y/F				Blob fades fast; h,t's differ 2nd event is famous SEP
21	21 Jan.	G	12:52	10	323/NW	36.6	1.0	arc	1.88	954	35.2-54.4	Y/F				Arc in Cam3; aurora late on 21st
24	24 Jan.	P	9:35	20.5	129/SE	30.5	0.3	arc	0.76	224	58.6-73.5	Y/F				Slow arc in Cam2; subtle
27	27 Jan.	?	6:48		/S			arc				N/N				Slow arc in Cam2; (no h,t; movie)
28	28 Jan.	P	4:50	5	187/S	24.4	0.3	arc	2.59	xxx	77.4-90.5	Y/Y				Faint arc to S Cam2; poss. part ES
28	28 Jan.	E	18:32	15	150/SE	75.5	0.3	loop	2.52	xxx	77.4-116	Y/Y				Wide, fast loop appears at 80E in Cam2-1; asymmetric; **Earthward?**
30	30 Jan.	P	5:03	25.5	3.5/N	67.4	0.3	loop	0.71	xxx	87.0-108	Y/Y				Wide asy. loop; particles; 2 h,t's?
31	31 Jan.	P	10:30	8.5	68/NE	14.4	0.5	arc	0.82	439	38.5-45.4	Y/Y				Short arc in Cam3; parts. obscure
32	1 Feb.	G	0:42	7	130/SE	27.1	1.0	loop	1.12	689	27.8-35.4	Y/Y				Bent arc in Cam3; subtle; comet ta
35	4 Feb.	V	2:59	15	125/SE	21.4	0.5	arc	1.58	232	66.4-89.6	Y/Y				Narrow, thin arc in Cam2
47	16 Feb.	G	8:32	12	353/N	40.0	0.5	V arc	1.54	xxx	73.7-91.8	Y/Y				Wide, slightly C.O.arc in Cam2
48	17 Feb.	P	13:32	7	313/NW	8.2	0.5	blob	3.47	xxx	71.8-95.1	Y/Y				Faint, fast blob in Cam2
54	23 Feb.	?	10:46	>3 d?	E			arc				N/N				Faint, wide arc Cam3-2;(no H,t;movie)
62	3 Mar.	G	4:08	22	332/NW	38.7	0.5	loop	0.69	398	29.4-44.8	Y/Y				Clear loop in Cam3; ends in parts.
62	3 Mar.	P	20:51	8.5	13/NNE	18.2	0.5	arc	1.01	636	24.9-33.1	Y/Y				Short, faint arc in Cam3; subtle
63	4 Mar.	V	22:19	25	33/NNE	46.1	0.5	arc	1.02	xxx	78.6-105	Y/Y				Wide, asy. arc, Cam2; parts., need C1
111	21 Apr.	P	20:03	27	26; 21	31.9	0.3	arc	0.85	192; 276	60.6-78.5	2Y/Y				Faint, slow arc in Cam2; C3 shuttered
162	11 Jun.	P	4:13	7	100/E	37.5	0.5	arc	1.79	153	77.0-89.2	Y/Y				Faint, wide, asy.arc in Cam2;also i N

Year/ DOY	Date	Conf[1]	First Obs. Time [UT][2]	Dura-tion [hrs.]	Azimuth Location [deg/dir][3]	Angu-lar Span [deg.]	Peak Bright-ness [adu]	Type[4]	Angular Speed [deg/hr]	Point P Speed [km/sec]	Elonga-tion Range [deg.][5]	Elong. vs Time?/ Movie?	LASCO Assoc?[6]	Surface Activity?[6]	IP Shock/ Storm Assoc?[6]	Comments[7]
166	15 Jun.	G	14:54	4	320/NW	22.8	0.5	arc	1.57	724	46.3-54.4	Y/Y				Short arc to NW Cam2;ahead of ne
166	15 Jun.	V	18:41	23	282; 342	81.9	0.5;1.0	loop	1.79; 1.57	153; 724	22.8-54.0	2Y/Y				Brg, wide loop, Cam3-2
171	20 Jun.	P	15:07	20	51/NE	26.6	0.5	arc	0.96	184	64.2-84.6	Y/Y				Faint arc in Cam2; glare interferes
173	22 Jun.	V	17:55	15	110/E	53.3	0.5	loop	1.89	xxx	94.3-124	Y/2Y				Clear asy. loop to edge Cam2; aurora on 23rd; faint N part? **Earthward?**
180	29 Jun.	G	17:33	13.5	17/NNE	xxx	xxx	arcs	0.99	438	44.9-58.8	Y/Y				Sev. faint arcs; parts. Interfere
181	30 Jun.	V	20:38	12	355/N	xxx	xxx	arcs	1.06	596	32.8-45.6	Y/Y				Sev. brg. arcs; poss. aurora late Jul
188	7 Jul.	G	23:40	8.5	128/SE	33.1	0.5	arc	1.80	xxx	87.3-103	Y/Y				Wide arc to SE; only a few orbits
190	9 Jul.	P	21:23	8.5	338/NNW	xxx	xxx	diffuse	1.87	730	49.1-64.9	Y/Y				Faint; aurora early 10th; **Earthward?**
191	10 Jul.	G	12:37	19	305/NW	57.6	0.5	arc	2.30	1099	27.6-70.8	Y/Y				Wide arc in Cam2; above aur. at star
194	13 Jul.	P	21:54	24	287; 281	xxx	xxx	2loops	1.14; 1.46	742; 900	19.1-36.0	2Y/Y				2 brg. loops to edge Cam3;shutter E
197	16 Jul.	V	12:33	15	266; 0.0	74.5	0.5	2 arcs	2.61; 2.26	xxx; 806	50.8-94.0	2Y/Y				Wide loop NW thru Cam2; 2nd N arc trails; aurora mid-17th; **Earthward?**
212	31 Jul.	G	12:08	7	38/NNE	28.3	0.3	loop	1.48	489	57.3-68.2	Y/Y				Curved loop in Cam2; before next evt.
212	31 Jul.	V	16:56	13.5	100/E	31.5	0.5	loop	1.58	xxx	74.5-95.9	Y/Y				Nice loop but fades in Cam2
217	5 Aug.	P	2:27	22	325/NW	60.0	0.3	arc	1.57	562	42.6-77.9	Y/Y				Faint NW arc in Cam2
225	13 Aug.	P	15:28	12	297/NW	43.1	0.5	arc(CO)	1.03	328	57.6-69.9	Y/Y				Faint, ~C.O. 'arc' in Cam2
231	19 Aug.	P	9:31	15	105/E	15.9	0.3	2 arcs	0.86	xxx	77.9-91.7	Y/Y				Very faint arc(s) E & NE
233	21 Aug.	P	7:00	~8.5	155/SSE	40.9	0.3	arc	1.05	xxx	104-113	Y/Y				Wide, subtle, fades (4 frames); Cam2
234	22 Aug.	?	10:25	7.5	82/ENE	21.7	0.2	arc	0.94	141	73.8-81.6	Y/Y				Very faint arc; real?; glare interferes
236	24 Aug.	V	18:16	5	96/E	66.5	0.5	loop	5.63	xxx	81.8-111	Y/Y				Broad, fast loop E Cam2; earlier fast arc to NW? Aurora; **Earthward?**

Year/ DOY	Date	Conf[1]	First Obs. Time [UT][2]	Dura-tion [hrs.]	Azimuth Location [deg/dir][3]	Angu-lar Span [deg.]	Peak Bright-ness [adu]	Type[4]	Angular Speed [deg/hr]	Point P Speed [km/sec]	Elonga-tion Range [deg.][5]	Elong. vs Time?/ Movie?	LASCO Assoc?[6]	Surface Activity?[6]	IP Shock/ Storm Assoc?[6]	Comments[7]
241	29 Aug.	P	4:40	7	77/ENE	14.7	0.2	arc	1.22	156	75.4-83.9	Y/Y				Very faint, short arc in Cam2
251	8 Sep.	G	22:21	7	84/ENE	45.1	0.5	loop	2.26	xxx	79.6-94.9	Y/Y				Wide, fast loop in Cam2; aur. strean er & shock 9th; **Earthward?** AR808
253	10 Sep.	P	13:06	7.5	119/SE	26.1	1.0	arc	1.49	777	37.0-49.5	Y/Y				SE arc in Cam3; maybe in Cam2; X fl., brg aur.& shock 11th; **Earthward**

SMEI Camera Configuration Log: 2003

Notes:
Times are for beginning of pass in which event occurred; exact time of execution may be up to 15 mins later.
Blue font denotes planned activities.
Red font denotes problems & anomalies.
Green font denotes WindSat activity.
Magenta font denotes a Spacecraft anomaly.
Orange font denotes CCD annealing.

	Date			Camera 1							Camera 2							Camera 3								
Rev # or UTC (hex)		JD	Time (Zulu)	Mode	CCD Bin'g	ROI	FF Cor-rec-tion	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Cor-rec-tion	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Cor-rec-tion	Shutter Position	FF LED	De-Icer set pt.	Obs Duration (DD:HH:MM)	Comments
11.0	6-Jan-03	6	7:17																							DHU pwr'd ON
12.0	6-Jan-03	6	8:51																							DeIcers set to +30 / +30 /+30
42.0	9-Jan-03	9	8:49																							SMEI to SAFE due to ACS anomaly
43.2	9-Jan-03	9	10:52																							DHU pwr'd ON, DeIcers to +30 / +30 / +30
80.1	11-Jan-03	11	22:36	2	1X1	ON	OFF	OPEN	OFF		0							0							01:28	
81.0	12-Jan-03	12	0:04	13	1X1	ON	OFF	FF	ON		0							0							no obs	Cam 1 anomaly, put SMEI into CONFIG mode
81.5	12-Jan-03	12	0:45	0							0							0								Turned Cam 1 OFF, stopped recording
85.3	12-Jan-03	12	7:04	2	1X1	ON	OFF	OPEN	OFF		0							0							no obs	Cam 1 anomaly, put SMEI into CONFIG mode
86.2	12-Jan-03	12	8:37	0							0							0								Turned Cam 1 OFF, stopped recording
96.5	13-Jan-03	13	1:30	2	1X1	ON	OFF	OPEN	OFF		0							0							02:33	**DHU reset** fixed anomaly
98.0	13-Jan-03	13	4:03	13	1X1	ON	OFF	FF	ON		0							0							02:10	
99.3	13-Jan-03	13	6:13	0							2	1X1	ON	OFF	OPEN	OFF		0							01:39	
100.3	13-Jan-03	13	7:52	0							13	1X1	ON	OFF	FF	ON		0							01:34	
101.2	13-Jan-03	13	9:26	0							0							0								Turned Cam 2 OFF, stopped recording
105.1	13-Jan-03	13	15:53	0							0							2	1X1	ON	OFF	OPEN	OFF		01:47	
106.2	13-Jan-03	13	17:40	0							0							13	1X1	ON	OFF	FF	ON		02:03	
107.4	13-Jan-03	13	19:43	0							0							0								
234.2	22-Jan-03	22	17:57	4	4X4	ON	ON	OPEN	OFF		0							0							02:05	
235.4	22-Jan-03	22	20:02	3	2X2	ON	ON	OPEN	OFF		0							0							01:16	
236.1	22-Jan-03	22	21:18	2	1X1	ON	OFF	OPEN	OFF		0							0							01:34	
237.1	22-Jan-03	22	22:52	0							0							0							17:27	
247.4	23-Jan-03	23	16:19	0							4	4X4	ON	ON	OPEN	OFF		0							01:20	
248.2	23-Jan-03	23	17:39	0							3	2X2	ON	ON	OPEN	OFF		0							01:41	
249.1	23-Jan-03	23	19:20	0							2	1X1	ON	OFF	OPEN	OFF		0							02:06	
250.4	23-Jan-03	23	21:26	0							0							0							21:36	
263.2	24-Jan-03	24	19:02	0							0							4	4X4	ON	ON	OPEN	OFF		01:34	
264.1	24-Jan-03	24	20:36	0							0							3	2X2	ON	ON	OPEN	OFF		01:48	
265.1	24-Jan-03	24	22:24	0							0							2	1X1	ON	OFF	OPEN	OFF		01:32	
266.0	24-Jan-03	24	23:56	0							0							0							16:39	
375.1	1-Feb-03	32	16:35	0							0							0							01:50	Opened Cam 1 Door
376.2	1-Feb-03	32	18:25	0							0							0							01:40	Opened Cam 2 Door
377.1	1-Feb-03	32	20:05	0							0							0							01:23	Opened Cam 3 Door
392.1	2-Feb-03	33	21:28	4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		03:13	
394.0	3-Feb-03	34	0:41	3	2X2	ON	ON	OPEN	OFF		1							1							01:40	
395.0	3-Feb-03	34	2:21	1							3	2X2	ON	ON	OPEN	OFF		1							01:39	
396.0	3-Feb-03	34	4:00	1							1							3	2X2	ON	ON	OPEN	OFF		02:11	
397.3	3-Feb-03	34	6:11	2	1X1	ON	OFF	OPEN	OFF		1							1							01:35	99% of complete orbit
398.2	3-Feb-03	34	7:46	1							2	1X1	ON	OFF	OPEN	OFF		1							01:53	
399.3	3-Feb-03	34	9:39	1							1							2	1X1	ON	OFF	OPEN	OFF		01:39	
400.3	3-Feb-03	34	11:18	10	1X1	OFF	OFF	FF	ON		1							1							01:46	
401.3	3-Feb-03	34	13:04	14	1X1	OFF	OFF	OPEN	OFF		1							1							01:38	
402.3	3-Feb-03	34	14:42	13	1X1	ON	OFF	FF	ON		1							1							01:28	<1 orbit--ok, shtr closed
403.2	3-Feb-03	34	16:10	15	1X1	ON	ON	FF	ON		1							1							01:40	

404.2	3-Feb-03	34	17:50	1							10	1X1	OFF	OFF	FF	ON		1							01:40	> 1 orbit by time
405.1	3-Feb-03	34	19:30	1							14	1X1	OFF	OFF	OPEN	OFF		1							02:07	
406.4	3-Feb-03	34	21:37	1							13	1X1	ON	OFF	FF	ON		1							01:16	<1 orbit--ok, shtr closed
407.1	3-Feb-03	34	22:53	1							15	1X1	ON	ON	FF	ON		1							01:30	<1 orbit--ok, shtr closed
408.0	4-Feb-03	35	0:23	1							1							10	1X1	OFF	OFF	FF	ON		01:41	
409.0	4-Feb-03	35	2:04	1							1							14	1X1	OFF	OFF	OPEN	OFF		01:38	
410.0	4-Feb-03	35	3:42	1							1							13	1X1	ON	OFF	FF	ON		02:12	
411.3	4-Feb-03	35	5:54	1							1							15	1X1	ON	ON	FF	ON		01:40	
412.3	4-Feb-03	35	7:34	DYN000	1X1	OFF	OFF	CLOSED	OFF		1							1							01:36	> 1 orbit by time
413.2	4-Feb-03	35	9:10	1							DYN000	1X1	OFF	OFF	CLOSED	OFF		1							01:51	
414.3	4-Feb-03	35	11:01	1							1							DYN000	1X1	OFF	OFF	CLOSED	OFF		01:43	
415.3	4-Feb-03	35	12:44	DYN001	1X1	ON	OFF	OPEN	OFF		1							1							01:42	
416.3	4-Feb-03	35	14:26	1							DYN001	1X1	ON	OFF	OPEN	OFF		1							03:27	
418.4	4-Feb-03	35	17:53	1							1							DYN001	1X1	ON	OFF	OPEN	OFF		01:45	
419.4	4-Feb-03	35	19:38	4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		01:46	
420.4	4-Feb-03	35	21:24	1							1							3	2X2	ON	ON	OPEN	OFF		01:19	
421.1	4-Feb-03	35	22:43	1							1							3	2X2	ON	ON	OPEN	OFF	-2	01:25	Deicers set to -30 / -3- / -2; Fast TC set
422.0	5-Feb-03	36	0:08	1							1							3	2X2	ON	ON	OPEN	OFF	-2	01:40	Went to SAFE, recovered from SAFE
423.0	5-Feb-03	36	1:48	1							1							DYN000	1X1	OFF	OFF	CLOSED	OFF	-2	03:49	
425.3	5-Feb-03	36	5:37	1							1							DYN000	1X1	OFF	OFF	CLOSED	OFF	3	11:35	Deicers to -30 / -30 / +3
432.1	5-Feb-03	36	17:12	1							1							13	1X1	ON	OFF	FF	ON	-2	06:37	Deicers to -30 / -30 / -2
436.0	5-Feb-03	36	23:49	4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF	-30	19:17:11	Deicers to -30 / -30 / -30; forced deice on Cam 3
??	25-Feb-03	56	17:00	DYN001	1X1	ON	OFF	OPEN	OFF		1							1						-30	02:00:00	
	27-Feb-03	58	17:00	1							DYN001	1X1	ON	OFF	OPEN	OFF		1						-30	02:00:00	
	1-Mar-03	60	17:00	1							1							DYN001	1X1	ON	OFF	OPEN	OFF	-30	02:00:00	
UTC	3-Mar-03	62	17:00	4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF	-30	13:04:00	
0606F990	16-Mar-03	75	21:00	1							1							DYN000	1X1	OFF	OFF	CLOSED	OFF	-30	00:02:00	
060715B0	16-Mar-03	75	23:00	4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF	-30	03:22:00	
060C3F90	20-Mar-03	79	21:00	1							1							DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:40	Deicers to -40 / -40 / -3
060C5700	20-Mar-03	79	22:40	4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		DYN002	2x2	ON	OFF	OPEN	OFF	-3	01:17:20	
060E9C40	22-Mar-03	81	16:00	4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		DYN002	2x2	ON	OFF	OPEN	OFF	-2	03:05:00	Deicers to -38 / -33 / -2
0612D710	25-Mar-03	84	21:00	1							1							DYN000	1X1	OFF	OFF	CLOSED	OFF	-2	00:01:40	Deicers to -38 / -32 / -2
0612EE60	25-Mar-03	84	22:40	4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		DYN002	2x2	ON	OFF	OPEN	OFF	-2	05:17:20	
061A79C0	31-Mar-03	90	16:00	1						-38	1						-32	DYN000	1X1	OFF	OFF	CLOSED	OFF	-2	00:09:10	includes SAA orbits
061AFAA8	1-Apr-03	91	1:10	1						-38	1						-32	13	1X1	ON	OFF	FF	ON	-2	00:01:40	
061B1218	1-Apr-03	91	2:50	1						-38	1						-32	DYN000	1X1	OFF	OFF	CLOSED	OFF	2	00:08:00	Deicers to -38 / -32 / +2; includes SAA
061B8298	1-Apr-03	91	10:50	1						-38	1						-32	DYN000	1X1	OFF	OFF	CLOSED	OFF	5	00:03:20	Deicers to -38 / -32 / +5
061BB178	1-Apr-03	91	14:10	1						-38	1						-32	DYN000	1X1	OFF	OFF	CLOSED	OFF	-30	00:09:10	Deicers to -38 / -32 / -30; includes SAA
061C3260	1-Apr-03	91	23:20	1						-38	13	1X1	ON	OFF	FF	ON	-30	1						-2	00:01:40	Deicers to -38 / -30 / -2
061C49D0	2-Apr-03	92	1:00	1						-38	DYN000	1X1	OFF	OFF	CLOSED	OFF	-30	1						-2	00:03:20	
061C78B0	2-Apr-03	92	4:20	1						-38	DYN000	1X1	OFF	OFF	CLOSED	OFF	-20	1						-2	00:07:40	Deicers to -38 / -20 / -2; includes SAA
061CE480	2-Apr-03	92	12:00	1						-38	DYN000	1X1	OFF	OFF	CLOSED	OFF	-10	1						-2	00:03:20	Deicers to -38 / -10 / -2
061D1360	2-Apr-03	92	15:20	13	1X1	ON	OFF	FF	ON	-38	1						-30	1						-2	00:01:40	Deicers to -38 / -30 / -2
061D2AD0	2-Apr-03	92	17:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-38	1						-30	1						-2	00:07:20	includes SAA orbits
061D91F0	3-Apr-03	93	0:20	1						-38	1						-30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-2	00:03:20	
061DC0D0	3-Apr-03	93	3:40	4	4X4	ON	ON	OPEN	OFF	-38	4	4X4	ON	ON	OPEN	OFF	-30	DYN002	2x2	ON	OFF	OPEN	OFF	-2	02:00:00	
062057DC	5-Apr-03	95	2:49																							WindSat -45 deg Pitch Maneuver
062063D0	5-Apr-03	95	3:40	1						-38	1						-30	13	1X1	ON	OFF	FF	ON	-2	00:07:40	includes SAA
0620CFA0	5-Apr-03	95	11:20	1						-38	1						-30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-2	00:03:20	
0620FE80	5-Apr-03	95	14:40	1						-38	13	1X1	ON	OFF	FF	ON	-30	1						-2	00:01:40	
062108DC	5-Apr-03	95	15:37																							WindSat +45 deg Pitch Maneuver
062115F0	5-Apr-03	95	16:20	1						-38	DYN000	1X1	OFF	OFF	CLOSED	OFF	-27	1						-2	00:09:10	Deicers to -38 / -27 / -2; incudes SAA
062196D8	6-Apr-03	96	1:30	13	1X1	ON	OFF	FF	ON	-38	1						-27	1						-2	00:01:40	
0621AE48	6-Apr-03	96	3:10	DYN000	1X1	OFF	OFF	CLOSED	OFF	-38	1						-27	1						-2	00:09:10	includes SAA
06222F30	6-Apr-03	96	12:20	4	4X4	ON	ON	OPEN	OFF	-38	4	4X4	ON	ON	OPEN	OFF	-27	DYN002	2x2	ON	OFF	OPEN	OFF	-2	04:16:20	
06285AE0	11-Apr-03	101	4:40	4	4X4	ON	ON	OPEN	OFF	-38	4	4X4	ON	ON	OPEN	OFF	-27	DYN002	2x2	ON	OFF	OPEN	OFF	-2	04:20:20	Anomaly occurred--no images

062EBED0	16-Apr-03	106	1:00	13	1X1	ON	OFF	FF	ON	-38	1						-27	1						-2	00:01:40	Anomaly resolved upon GOTO CONFIG
062ED640	16-Apr-03	106	2:40	DYN000	1X1	OFF	OFF	CLOSED	OFF	-38	1						-27	1						-2	00:01:40	
062EEDB0	16-Apr-03	106	4:20	1						-38	13	1X1	ON	OFF	FF	ON	-27	1						-2	00:07:10	includes SAA orbits
062F5278	16-Apr-03	106	11:30	1						-38	DYN000	1X1	OFF	OFF	CLOSED	OFF	-27	1						-2	00:01:40	
062F69E8	16-Apr-03	106	13:10	1						-38	1						-27	13	1X1	ON	OFF	FF	ON	-2	00:01:40	
062F8158	16-Apr-03	106	14:50	1						-38	1						-27	DYN000	1X1	OFF	OFF	CLOSED	OFF	-2	01:01:40	
0630EA48	17-Apr-03	107	16:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	05:23:30	Delcers to -50 / -50 / -50
0638CC40	23-Apr-03	113	16:00	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:07:30	includes SAA orbits
06393588	23-Apr-03	113	23:30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
06394E54	24-Apr-03	114	1:15	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	
063966F0	24-Apr-03	114	3:00	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
06397F8C	24-Apr-03	114	4:45	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
06399828	24-Apr-03	114	6:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:09:30	includes SAA orbits;
063A1DC0	24-Apr-03	114	16:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:00:00	
064206C0	30-Apr-03	120	16:00	1						-30	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-4	02:03:14	Delcers to -30 / -30 / -4-->discovered image anamoly--only ~top 1/8 of frame showing data; started during last obs; effects all cams
Rev 1652.2	2-May-03	122	19:14	0						off	0						off	0						off	00:00:11	**DHU reset**
0644D9CC	2-May-03	122	19:25	4	4X4	ON	ON	OPEN	OFF	off	4	4X4	ON	ON	OPEN	OFF	off	DYN002	2x2	ON	OFF	OPEN	OFF	off	01:21:35	data good
06475AD0	4-May-03	124	17:00	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-4	03:00:00	
064B4F50	7-May-03	127	17:00	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-30	1						-4	02:00:00	
064DF250	9-May-03	129	17:00	1						-30	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-4	02:00:00	
06509550	11-May-03	131	17:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:17:30	
06518B68	12-May-03	132	10:30	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	
0651A404	12-May-03	132	12:15	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0651BCA0	12-May-03	132	14:00	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	
0651D53C	12-May-03	132	15:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0651EDD8	12-May-03	132	17:30	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
06520674	12-May-03	132	19:15	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:05:30	includes SAA orbits
065253CC	13-May-03	133	0:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	08:23:15	
065E26C0	22-May-03	142	0:00	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:45	Delcers -50 / -50 / -3
065E3F5C	22-May-03	142	1:45	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-3	00:01:45	
065E57F8	22-May-03	142	3:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN003	2x2	ON	OFF	CLOSED	OFF	45	01:00:00	Cam 3 ANNEAL
065FA978	23-May-03	143	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:03:30	Delcers to -50 / -50 / -3
065FDAB0	23-May-03	143	7:00	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-3	00:05:30	Includes SAA orbits
06602808	23-May-03	143	12:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:01:30	Delcers to -50 / -50 / -50
06603D20	23-May-03	143	14:00	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:03:30	includes WindSat pitch man
06604CD4	23-May-03	143	15:07																							WindSat +45 deg Pitch Maneuver
06606E58	23-May-03	143	17:30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
066066F4	23-May-03	143	19:15	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:05:45	includes SAA orbits
0660D7D0	24-May-03	144	1:00	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:03:45	includes WindSat pitch man
0660E61C	24-May-03	144	2:01																							WindSat -45 deg Pitch Maneuver
06610C8C	24-May-03	144	4:45	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
06612528	24-May-03	144	6:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:05:45	includes SAA orbits
06617604	24-May-03	144	12:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	12:22:15	
067280E8	6-Jun-03	157	10:30	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	
06729984	6-Jun-03	157	12:15	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0672B220	6-Jun-03	157	14:00	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	
0672CABC	6-Jun-03	157	15:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0672E358	6-Jun-03	157	17:30	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:07:00	includes SAA orbits
067345C8	7-Jun-03	158	0:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
06735E64	7-Jun-03	158	2:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	03:14:15	
06781B48	10-Jun-03	161	16:30	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-27	1						-8	00:01:45	fast thermal control set
067833E4	10-Jun-03	161	18:15	1						-50	13	1X1	ON	OFF	FF	ON	-27	1						-8	00:06:30	includes SAA orbits
06788F4C	11-Jun-03	162	0:45	1						-50							-27	DYN000	1X1	OFF	OFF	CLOSED	OFF	-8	00:01:45	
0678A7E8	11-Jun-03	162	2:30	1						-50							-27	13	1X1	ON	OFF	FF	ON	-8	00:01:45	
0678C084	11-Jun-03	162	4:15	4	4X4	ON	ON	OPEN	OFF	-50	DYN004	4X4	ON	ON	CLOSED	OFF	45	DYN003	2x2	ON	OFF	CLOSED	OFF	45	01:00:00	C2, C3 ANNEAL, normal thrm ctrl set
067A1204	12-Jun-03	163	4:15	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-8	00:01:45	fast thermal control set
067A2AA0	12-Jun-03	163	6:00	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-8	00:05:45	includes SAA orbits
067A7B7C	12-Jun-03	163	11:45	1						-50							-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-8	00:01:45	

067A9418	12-Jun-03	163	13:30	1						-50							-50	13	1X1	ON	OFF	FF	ON	-8	00:01:45	
067AACB4	12-Jun-03	163	15:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:01:15	
067C0FC8	13-Jun-03	164	16:30	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-27	1						-3	00:01:45	
067C2864	13-Jun-03	164	18:15	1						-50	13	1X1	ON	OFF	FF	ON	-27	1						-3	00:07:15	includes SAA orbits
067C8E58	14-Jun-03	165	1:30	1						-50							-27	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:45	
067CA6F4	14-Jun-03	165	3:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:08:00	
06850074	20-Jun-03	171	11:15	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	
06851910	20-Jun-03	171	13:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
068531AC	20-Jun-03	171	14:45	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	
06854A48	20-Jun-03	171	16:30	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:08:30	includes SAA orbits
0685C1D0	21-Jun-03	172	1:00	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
0685DA6C	21-Jun-03	172	2:45	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
0685F308	21-Jun-03	172	4:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	07:07:30	
068F9700	28-Jun-03	179	12:00	1						-30	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-4	02:00:00	
06923A00	30-Jun-03	181	12:00	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-4	02:00:00	
0694DD00	2-Jul-03	183	12:00	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-30	1						-4	01:08:09	Discovered attitude info gaps; only approx 1/2 of data is useable.
Rev 2531.4	3-Jul-03	184	20:09	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-30	1						-30	00:15:51	**DHU Reset**, therm ctrl to -30/-30/-30
06978000	4-Jul-03	185	12:00	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	
0697989C	4-Jul-03	185	13:45	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0697B138	4-Jul-03	185	15:30	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	
0697C9D4	4-Jul-03	185	17:15	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0697E270	4-Jul-03	185	19:00	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:05:30	includes SAA orbits
06982FC8	5-Jul-03	186	0:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
06984864	5-Jul-03	186	2:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	03:04:12	
069C77F4	8-Jul-03	189	6:27	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:06:08	WindSat Negative Pitch maneuver
069E1FB4	9-Jul-03	190	12:35	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:23:25	WindSat Positive Pitch maneuver
069E892C	9-Jul-03	190	20:05	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:17:40	**DHU Reset** to resolve Rice compression anomaly
06A06A80	11-Jul-03	192	12:00	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	
06A0D31C	11-Jul-03	192	13:45	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
06A0EBB8	11-Jul-03	192	15:30	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	
06A10454	11-Jul-03	192	17:15	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:06:45	includes SAA orbits
06A16340	12-Jul-03	193	0:00	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
06A17BDC	12-Jul-03	193	1:45	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
06A19478	12-Jul-03	193	3:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:21:30	
06A2C2D0	13-Jul-03	194	1:00	1						-30	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-4	01:20:14	
06A530D8	14-Jul-03	195	21:14	1						-30	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-4	04:18:11	**ACS anomaly**, SV to Safe Hold, ACS to B-dot, WindSat despun, SMEI mode unchanged
06AB768C	19-Jul-03	200	15:25	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	03:20:35	**DHU Reset** to resolve Cam 1 invalid telem anomaly
06B06C80	23-Jul-03	204	12:00	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	
06B0A51C	23-Jul-03	204	13:45	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
06B0BDB8	23-Jul-03	204	15:30	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	
06B0D654	23-Jul-03	204	17:15	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:08:15	includes SAA orbits
06B14A58	24-Jul-03	205	1:30	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
06B162F4	24-Jul-03	205	3:15	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
06B17B90	24-Jul-03	205	5:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	08:05:30	
06BC54E8	1-Aug-03	213	10:30	14	1X1	OFF	OFF	OPEN	OFF	-30	1						-30	1						-4	00:01:45	Delcers to -30 / -30 / -4
06BC6D84	1-Aug-03	213	12:15	1						-30	14	1X1	OFF	OFF	OPEN	OFF	-30	1						-4	00:01:45	
06BC8620	1-Aug-03	213	14:00	1						-30	1						-30	14	1X1	OFF	OFF	OPEN	OFF	-4	00:01:45	
06BC9EBC	1-Aug-03	213	15:45	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	Delcers to -50 / -50 / -50
06BCB758	1-Aug-03	213	17:30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
06BCCFF4	1-Aug-03	213	19:15	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:05:30	includes SAA orbits
06BD1D4C	2-Aug-03	214	0:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
06BD35E8	2-Aug-03	214	2:30	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
06BD4E84	2-Aug-03	214	4:15	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
06BD6720	2-Aug-03	214	6:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:09:51	
06C094A4	4-Aug-03	216	15:51	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:23:06	**Yaw Test begins**
06C32AFC	6-Aug-03	218	14:57	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:20:18	**Yaw Test ends**
06C599F4	8-Aug-03	220	11:15	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
06C5B290	8-Aug-03	220	13:00	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	

06C5CB2C	8-Aug-03	220	14:45	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
06C5E3C8	8-Aug-03	220	16:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:45	Delcers to -50 / -50 / -3
06C5FC84	8-Aug-03	220	18:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:04:15	Delcers to -50 / -50 / -50
06CE2128	14-Aug-03	226	22:30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
06CE39C4	15-Aug-03	227	0:15	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
06CE5260	15-Aug-03	227	2:00	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
06CE6AFC	15-Aug-03	227	3:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:19:45	
06D223B8	17-Aug-03	229	23:30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-27	1						-27	1						-3	00:01:45	Delcers to -27 / -27 / -3
06D23C54	18-Aug-03	230	1:15	1						-27	DYN000	1X1	OFF	OFF	CLOSED	OFF	-27	1						-3	00:01:45	
06D254F0	18-Aug-03	230	3:00	1						-27							-27	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:45	
06D26D8C	18-Aug-03	230	4:45	DYN004	4X4	ON	ON	CLOSED	OFF	45	4	4X4	ON	ON	OPEN	OFF	-50	DYN003	2x2	ON	OFF	CLOSED	OFF	45	01:00:00	C1, C3 ANNEAL, normal thrm ctrl set
06D3BF0C	19-Aug-03	231	4:45	4	4X4	ON	ON	OPEN	OFF	-27	DYN004	4X4	ON	ON	CLOSED	OFF	45	DYN003	2x2	ON	OFF	CLOSED	OFF	45	01:00:00	C2, C3 ANNEAL
06D5108C	20-Aug-03	232	4:45	DYN000	1X1	OFF	OFF	CLOSED	OFF	-27	1						-27	1						-3	00:07:00	Delcers to -27 / -27 / -3, fast thrm cntrl, SAA
06D572FC	20-Aug-03	232	11:45	1						-27	1						-27	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:45	
06D58B98	20-Aug-03	232	13:30	1						-27	DYN000	1X1	OFF	OFF	CLOSED	OFF	-27	1						-3	00:01:45	
06D5A434	20-Aug-03	232	15:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:02:25	
06D5C630	20-Aug-03	232	17:40	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:04:50	**DHU Reset**, Post-Anneal (preemptive)
06D75BA8	21-Aug-03	233	22:30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
06D77444	22-Aug-03	234	0:15	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
06D78CE0	22-Aug-03	234	2:00	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
06D7A57C	22-Aug-03	234	3:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	04:13:15	
06DDA5D0	26-Aug-03	238	17:00	1						-30	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-4	02:00:00	Delcers to -30 / -30 / -4
06E048D0	28-Aug-03	240	17:00	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-4	02:00:00	
06E2EBD0	30-Aug-03	242	17:00	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-30	1						-4	02:00:00	
06E58ED0	1-Sep-03	244	17:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:05:30	Delcers to -50 /-50 / -50
06E5DC28	1-Sep-03	244	22:30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
06E5F4C4	2-Sep-03	245	0:15	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
06E60D60	2-Sep-03	245	2:00	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
06E625FC	2-Sep-03	245	3:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	03:11:00	
06EAB52C	5-Sep-03	248	14:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:08:15	**DHU Reset** - Rice Compression anomaly (2nd)
06EB2930	5-Sep-03	248	23:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
06EB41CC	6-Sep-03	249	0:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
06EB5A68	6-Sep-03	249	2:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
06EB7304	6-Sep-03	249	4:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:18:30	
06F4602C	12-Sep-03	255	22:45	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
06F478C8	13-Sep-03	256	0:30	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
06F49164	13-Sep-03	256	2:15	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
06F4AA00	13-Sep-03	256	4:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:20:00	
06FDAC40	20-Sep-03	263	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
06FDC4DC	20-Sep-03	263	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
06FDDD78	20-Sep-03	263	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
06FDF614	20-Sep-03	263	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
0706E6C0	27-Sep-03	270	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0706FF5C	27-Sep-03	270	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
070717F8	27-Sep-03	270	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
07073094	27-Sep-03	270	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	05:05:45	
Rev 3791.1	30-Sep-03	273	17:22	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	05:19:23	**DHU Reset** - Rice Compression anomaly (3rd) (code ver: 5)
070E18F0	2-Oct-03	275	11:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	01:07:18	**Inadvertent Reboot Anomaly**: DHU rebooted when this tasking initiated-- Cams pwr'd OFF, DHU left in BOOT mode; blue denotes intended config, not actual
Rev 3834.2	3-Oct-03	276	18:18	0							0							0							02:18:27	**DHU Reset - failed**; GOTOCONF rejected in BOOT mode
Rev 3847.4	4-Oct-03	277	16:28	0							0							0							00:03:38	**DHU Reset** - successful (code ver: 6)
Rev 3849.4	4-Oct-03	277	20:06	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:14:54	SMEI configured to normal obs mode
07135EF0	6-Oct-03	279	11:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0713778C	6-Oct-03	279	12:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
07139028	6-Oct-03	279	14:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:02:00	

0713AC48	6-Oct-03	279	16:30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	1						-3	1						-3	00:08:45	Delcers to -3/-3/-3, includes SAA orbits
07142754	7-Oct-03	280	1:15	1						-3	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	1						-3	00:01:45	
07143FF0	7-Oct-03	280	3:00	1						-3	1						-3	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:45	
0714588C	7-Oct-03	280	4:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN003	2x2	ON	OFF	CLOSED	OFF	45	01:00:00	C3 ANNEAL, normal thrm ctrl set
0715AA0C	8-Oct-03	281	4:45	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:07:30	fast therm ctrl, Delcers to -50 / -50 / -3, SAA orbits
07161384	8-Oct-03	281	12:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:11:45	Delcers to -50 / -50 / -50
071EA1C0	15-Oct-03	288	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	anomaly--no images
071EBA5C	15-Oct-03	288	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	anomaly--no images
071ED2F8	15-Oct-03	288	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	anomaly--no images
071EEB94	15-Oct-03	288	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:15:49	anomaly--no images
Rev 4020.1	16-Oct-03	289	21:04	1						-50	1						-50	1						-50	00:01:49	**Code Load:** Patch Upload, part 1
Rev 4021.1	16-Oct-03	289	22:53	1							1							1							00:01:43	**Code Load:** Patch Upload, part 2; Patch Activate (anomaly resolved)
Rev 4022.2	17-Oct-03	290	0:36	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	05:23:24	**Code Load:** Fast TTC, Delcers to -50/-50/-50, Norm Obs mode
07292DC0	23-Oct-03	296	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0729465C	23-Oct-03	296	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
07295EF8	23-Oct-03	296	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
07297794	23-Oct-03	296	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:12:45	
072CCDE0	25-Oct-03	298	18:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN003	2x2	ON	OFF	CLOSED	OFF	50%	00:03:30	Hot Anneal, part 1: C3 Delcer at 50% duty cycle; Norm TC
072CFF18	25-Oct-03	298	21:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN003	2x2	ON	OFF	CLOSED	OFF	25%	00:03:30	Hot Anneal, part 2: C3 Delcer at 25% duty cycle
072D3050	26-Oct-03	299	1:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	04:18:50	Fast TC
07337F28	30-Oct-03	303	19:50	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN003	2x2	ON	OFF	CLOSED	OFF	75%	00:00:40	Hot Anneal, part 2a: C3 Delcer at 75% duty cycle; Norm TC-->**INVALID TELEM ANOMALY**
07338888	30-Oct-03	303	20:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:01:40	Fast TC
Rev 4219.1	30-Oct-03	303	22:10	0							0							0							00:04:52	**DHU Reset** (code ver: 0)
Rev 4222.0	31-Oct-03	304	3:02	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:17:53	Fast TC
07363164	1-Nov-03	305	20:55	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN003	2x2	ON	OFF	CLOSED	OFF	75%	00:00:40	Hot Anneal, part 2a (repeated because of anomaly): C3 Delcer at 75% duty cycle; Norm TC-->**NOT EXECUTED** due to RSC operator error
07363AC4	1-Nov-03	305	21:35	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	04:02:10	Fast TC-->**NOT EXECUTED** due to RSC operator error
073B9F3C	5-Nov-03	309	23:45	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
073BB7D8	6-Nov-03	310	1:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:45	Delcers to -50 / -50 / -3
073BD074	6-Nov-03	310	3:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN003	2x2	ON	OFF	CLOSED	OFF	87%	01:00:00	Hot Anneal, part 3: C3 Delcer at 87% duty cycle; Norm TC
073D21F4	7-Nov-03	311	3:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:07:30	Fast TC, Delcers to -50 / -50 / -50
073D8B6C	7-Nov-03	311	10:45	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
073DA408	7-Nov-03	311	12:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:45	Delcers to -50 / -50 / -3
073DBCA4	7-Nov-03	311	14:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:02:15	Delcers to -50 / -50 / -50
073DDC48	7-Nov-03	311	16:30	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-3	00:14:10	Delcers to -30 /-30 / -3
073EA380	8-Nov-03	312	6:40	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-3	02:17:15	anomaly--no images
Rev 4376.0	10-Nov-03	314	23:55	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-1	01:16:35	**DHU reset** (code ver: 1)
074473C8	12-Nov-03	316	16:30	1						-30	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-1	02:00:00	Delcers to -30 / -30 / -1
074716C8	14-Nov-03	318	16:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:06:15	Delcers to -50 / -50 / -50
07476EAC	14-Nov-03	318	22:45	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
07478748	15-Nov-03	319	0:30	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
07479FE4	15-Nov-03	319	2:15	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
0747B880	15-Nov-03	319	4:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:12:30	
07486648	15-Nov-03	319	16:30	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-30	1						-1	02:00:00	Delcers to -30 / -30 / -1
074B0B48	17-Nov-03	321	16:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:07:00	Delcers to -50 / -50 / -50
074B6DB8	17-Nov-03	321	23:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:11:15	soft reset
074C08EC	18-Nov-03	322	10:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:12:30	soft reset
074C8BB4	18-Nov-03	322	23:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:11:15	soft reset
074D59E8	19-Nov-03	323	10:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:12:30	soft reset
074E09B0	19-Nov-03	323	23:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:11:15	soft reset
074E4A60	20-Nov-03	324	3:36																							WindSat Positive Pitch maneuver
074EA7E4	20-Nov-03	324	10:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:12:30	soft reset

074F0DD8	20-Nov-03	324	17:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50		**DHU reset** - temp monitor anomaly (code ver: 2)
074F57AC	20-Nov-03	324	22:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:11:15	soft reset
074FF5E0	21-Nov-03	325	10:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:12:15	soft reset
07504BA8	21-Nov-03	325	16:06																							WindSat Negative Pitch maneuver
0750A224	21-Nov-03	325	22:15	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	soft reset
0750BAC0	22-Nov-03	326	0:00	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0750D35C	22-Nov-03	326	1:45	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
0750EBF8	22-Nov-03	326	3:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:06:00	
07514058	22-Nov-03	326	9:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:14:15	soft reset
075208BC	22-Nov-03	326	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:11:15	soft reset
0752A8F0	23-Nov-03	327	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:12:45	soft reset
07535A3C	23-Nov-03	327	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:11:15	soft reset
0753F870	24-Nov-03	328	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:12:10	soft reset
0754A388	24-Nov-03	328	23:10	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:00:35	**DHU reset** - partially invalid data "anomaly" (code ver: 3)
0754ABBC	24-Nov-03	328	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:11:15	soft reset
075549F0	25-Nov-03	329	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:12:45	soft reset
0755FD3C	25-Nov-03	329	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:11:15	soft reset
07569B70	26-Nov-03	330	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:12:45	soft reset
07574EBC	26-Nov-03	330	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:11:15	soft reset
0757ECF0	27-Nov-03	331	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:12:45	soft reset
0758A03C	27-Nov-03	331	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:11:15	soft reset
07593E70	28-Nov-03	332	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:12:45	soft reset
0759F1BC	28-Nov-03	332	23:45	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
075A0A58	29-Nov-03	333	1:30	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
075A22F4	29-Nov-03	333	3:15	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
075A3B90	29-Nov-03	333	5:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:06:00	
075A8FF0	29-Nov-03	333	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:12:45	soft reset
075B433C	29-Nov-03	333	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:11:15	soft reset
075BE170	30-Nov-03	334	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:12:45	soft reset
075C94BC	30-Nov-03	334	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:11:15	soft reset
075C9534	30-Nov-03	334	23:47																							Anomaly: C2 shutter mis-labelled as CLOSED
075D32F0	1-Dec-03	335	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:12:45	soft reset; anomaly resolved
075DE63C	1-Dec-03	335	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:11:15	soft reset
075E8470	2-Dec-03	336	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:06:44	soft reset; **Cam 3 Image Anomaly**--no images, SMEI unresponsive to cmds
075F37BC	2-Dec-03	336	23:45											.												Cams 2 & 1 show same anomalous symptom as Cam 3
075F3DD4	3-Dec-03	337	0:11																							DHU reset attempted, SMEI unresponsive to GOTO_CONF cmd
076034A0	3-Dec-03	337	17:44	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:06:01	**DHU Reset** (code ver: 4)
0760693C	3-Dec-03	337	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:11:15	soft reset
07612770	4-Dec-03	338	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:23:30	soft reset, after this automatic soft resets implemented
07625C1C	5-Dec-03	339	8:57																							ACS anomaly, SV to Safe Hold, ACS to B-dot, WindSat despun (controlled), SMEI mode unchanged
0763C368	6-Dec-03	340	10:30	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:00:32	
0763CAE8	6-Dec-03	340	11:02	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:01:13	to reset non-std config after auto soft reset
0763DC04	6-Dec-03	340	12:15	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0763F4A0	6-Dec-03	340	14:00	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	
07640D3C	6-Dec-03	340	15:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:08:00	
07647DBC	6-Dec-03	340	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:16:45	routine soft reset
07680C48	9-Dec-03	343	16:30	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:07:30	includes SAA orbits
076875C0	10-Dec-03	344	0:00	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
07688E5C	10-Dec-03	344	1:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	03:08:15	
076CF6E0	13-Dec-03	347	10:00	0							0							0							00:01:00	**Inadvertent Reboot**--SEU? (code ver: 5)
076D04F0	13-Dec-03	347	11:00	4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		DYN002	2x2	ON	OFF	OPEN	OFF		05:21:15	auto-reset
0774C744	19-Dec-03	353	8:15	4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		DYN002	2x2	ON	OFF	OPEN	OFF		00:02:47	Anomaly: no SOH telemetry; image data still valid

0774EE68	19-Dec-03	353	11:02	4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		DYN002	2x2	ON	OFF	OPEN	OFF		00:06:38	auto reset didn't resolve anomaly
07754BB0	19-Dec-03	353	17:40	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:22:35	DHU Reset (code ver: 6)
0776B944	20-Dec-03	354	16:15	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
0776A1E0	20-Dec-03	354	18:00	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:05:47	includes SAA orbits
0776F334	20-Dec-03	354	23:47	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:00:13	Soft reset
0776F640	21-Dec-03	355	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
07770EDC	21-Dec-03	355	1:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:14:30	
07792C44	22-Dec-03	356	16:15	1						-30	1						-28	DYN001	1X1	ON	OFF	OPEN	OFF	2	02:00:00	Delcers to -30 / -28 / +2
077BCF44	24-Dec-03	358	16:15	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-28	1						2	02:00:00	
077C3934	24-Dec-03	358	23:47	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-28	1						2	00:11:15	Soft reset
077CD768	25-Dec-03	359	11:02	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-28	1						2	00:12:45	Soft reset
077D8AB4	25-Dec-03	359	23:47	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-28	1						2	00:11:15	Soft reset
077E28E8	26-Dec-03	360	11:02	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-28	1						2	00:05:13	Soft reset
077E7244	26-Dec-03	360	16:15	1						-30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-27	1						-3	00:01:45	Delcers to -30 / -27 / -3
077E8AE0	26-Dec-03	360	18:00	1						-30	1						-27	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:06:15	includes SAA orbits
077EE2C4	27-Dec-03	361	0:15	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-28	1						45	01:00:00	Cam 3 ANNEAL; Norm TC; Delcers to -30 / -28 / +45
077F7A68	27-Dec-03	361	11:02	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-28	1						45	00:13:13	Soft reset
07803444	28-Dec-03	362	0:15	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						45	1						45	01:00:00	Cams 2 & 3 ANNEAL; Delcers to -30 / +45 / +45; Soft reset
0780CBE8	28-Dec-03	362	11:02	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						45	1						45	00:13:13	Soft reset
078185C4	29-Dec-03	363	0:15	1						-30	1						-27	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:03:30	Fast TC; Delcers to -30 / -27 / -3
0781B6FC	29-Dec-03	363	3:45	1						-30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-27	1						-3	00:01:45	
0781CF98	29-Dec-03	363	5:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:17:15	Delcers to -50 / -50 / -50
078413AC	30-Dec-03	364	22:45	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:02	
07842234	30-Dec-03	364	23:47	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:00:43	
07842C48	31-Dec-03	365	0:30	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
078444E4	31-Dec-03	365	2:15	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
07845D60	31-Dec-03	365	4:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	#REF!	

Non-standard Operation	*Camera*	*Mode #*	*Frequency*	*Constraints*	*Primary Data Analyst*
Weekly Calibration	all	DYN000	every week	floating temps	J. Tappin
2-day Engineering Mode Observation	all	DYN001	every 2 months (first year)	no moon in FOV, floating temps	A. Buffington
High Flat Field Calibration	all	13	every 4 months	floating temps	A. Buffington

SMEI Camera Configuration Log: 2004

Notes:
Times are for beginning of pass in which event occurred; exact time of execution may be up to 15 mins later.
Blue font denotes planned activities.
Red font denotes problems & anomalies.
Green font denotes WindSat activity.
Magenta font denotes a Spacecraft anomaly.
Orange font denotes CCD annealing.

				Camera 1							Camera 2							Camera 3								
Rev # or UTC (hex)	Date	JD	Time (Zulu)	Mode	CCD Bin'g	ROI	FF Corre-ction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Correction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Correction	Shutter Position	FF LED	De-Icer set pt.	Obs Duration (DD:HH:MM)	Comments
078E9C28	7-Jan-04	7	22:30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:17	
078EAE34	7-Jan-04	7	23:47	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:00:28	
078EB4C4	8-Jan-04	8	0:15	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
078ECD60	8-Jan-04	8	2:00	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
078EE5FC	8-Jan-04	8	3:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:19:45	
078EE980	8-Jan-04	8	4:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:21:15	Rice / Parity Error Anomaly
Rev 5225.1	9-Jan-04	9	21:41	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	05:05:19	**DHU Reset**
0797E4B8	14-Jan-04	14	23:30	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
0797FD54	15-Jan-04	15	1:15	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:45	Delcers to -50 / -50 / -03
079815F0	15-Jan-04	15	3:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN003	2x2	ON	OFF	CLOSED	OFF	100%	01:00:00	HOT ANNEAL; norm TC
07996770	16-Jan-04	16	3:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:07:30	Fast TC, Delcers to -50 / -50 / -50
0799D0E8	16-Jan-04	16	10:30	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
0799E964	16-Jan-04	16	12:15	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:45	Delcers to -50 / -50 / -3; includes SAA orbits
079A0220	16-Jan-04	16	14:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:10:00	Delcers to -50 / -50 / -50
079A8EC0	17-Jan-04	17	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
079AA75C	17-Jan-04	17	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
079ABFF8	17-Jan-04	17	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
079AD894	17-Jan-04	17	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:22:23	
079EB658	20-Jan-04	20	3:38	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:18:19	Invalid Telemetry Anomaly
Rev 5361.1	20-Jan-04	20	21:57	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:18:33	**DHU Reset**
07A35FC8	23-Jan-04	23	16:30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
07A37864	23-Jan-04	23	18:15	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:05:32	includes SAA orbits
07A3C634	23-Jan-04	23	23:47	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:00:28	soft reset
07A3CCC4	24-Jan-04	24	0:15	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
07A3E560	24-Jan-04	24	2:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	03:10:43	
Rev 5474.9	27-Jan-04	27	12:43	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:03:41	**+20 deg Yaw Test** (Towards the Sun)
Rev 5477.1	27-Jan-04	27	16:24	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	0						-50	01:11:24	Pwr'd off Cam 3 to avoid overheating
Rev 5498.0	29-Jan-04	29	3:48	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	0						-50	00:07:12	end +20 deg Yaw Test
07AB8D60	29-Jan-04	29	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:10:24	Cam 3 pwr'd on
Rev 5508.4	29-Jan-04	29	21:24	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:19:57	**-20 degYaw Test** (Away from Sun)
Rev 5520.2	30-Jan-04	30	17:21	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-60	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:06:34	Delcers to -50 / -60 / -50
Rev 5524.0	30-Jan-04	30	23:55	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	04:22:35	end -20 deg Yaw Test; Delcers to -50 / -50 / -50
07B38628	4-Feb-04	35	22:30	1						-50	1						-50	14	1X1	OFF	OFF	OPEN	OFF	-50	00:03:30	cease auto-resets
07B3B760	5-Feb-04	36	2:00	1						-50	14	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	00:07:45	includes SAA orbits
07B4245C	5-Feb-04	36	9:45	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:03:30	
07B45594	5-Feb-04	36	13:15	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:03:30	
07B486CC	5-Feb-04	36	16:45	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:10:30	includes SAA orbits; cease auto-resets
07B51A74	6-Feb-04	37	3:15	10	1X1	OFF	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	
07B53310	6-Feb-04	37	5:00	1						-50	10	1X1	OFF	OFF	FF	ON	-50	1						-50	00:07:45	includes SAA orbits
07B5A00C	6-Feb-04	37	12:45	1						-50	1						-50	10	1X1	OFF	OFF	FF	ON	-50	00:01:45	
07B5B6A8	6-Feb-04	37	14:30	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	
07B5D144	6-Feb-04	37	16:15	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	cease auto-resets
07B5E9E0	6-Feb-04	37	18:00	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:07:15	includes SAA orbits
07B64FD4	7-Feb-04	38	1:15	15	1X1	ON	ON	FF	ON	-50	1						-50	1						-50	00:01:45	
07B66870	7-Feb-04	38	3:00	1						-50	15	1X1	ON	ON	FF	ON	-50	1						-50	00:01:45	
07B6810C	7-Feb-04	38	4:45	1						-50	1						-50	15	1X1	ON	ON	FF	ON	-50	00:07:45	includes SAA orbits

07B6EE08	7-Feb-04	38	12:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:11:30	resume auto-resets
07BF78C0	14-Feb-04	45	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
07BF915C	14-Feb-04	45	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
07BFA9F8	14-Feb-04	45	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
07BFC294	14-Feb-04	45	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	05:13:15	
07C71468	19-Feb-04	50	18:30	1						-50	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	0	02:00:00	Delcers to -50 / -50 / 0, stop auto-resets
07C9B768	21-Feb-04	52	18:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:04:00	Delcers to -50 / -50 / -50; stop auto-resets
07C9EFA8	21-Feb-04	52	22:30	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
07CA0844	22-Feb-04	53	0:15	1						-50	1						-30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:45	Delcers to -50 / -30 / -03
07CA20E0	22-Feb-04	53	2:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-3	01:00:00	
07CB7260	23-Feb-04	54	2:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						100%	01:00:00	CAM 3 HOT ANNEAL; norm TC; stop auto-resets
07CCC3E0	24-Feb-04	55	2:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:08:45	Fast TC, Delcers to -50 / -50 / -50, SAA orbits; stop auto-resets
07CD3EEC	24-Feb-04	55	10:45	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
07CD5788	24-Feb-04	55	12:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:45	Delcers to -50 / -50 / -3
07CD7024	24-Feb-04	55	14:15	14	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-3	00:03:30	
07CDA15C	24-Feb-04	55	17:45	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-50	1						-50	02:00:00	Delcers to -30 / -50 / -50; stop auto-resets
07D0445C	26-Feb-04	57	17:45	DYN001	1X1	ON	OFF	OPEN	OFF	-37	1						-50	1						-50	01:00:00	DM's pointing study: Delcers to -37 / -50 / -50; stop auto-resets
07D195DC	27-Feb-04	58	17:45	DYN001	1X1	ON	OFF	OPEN	OFF	-20	1						-50	1						-50	01:00:00	DM's pointing study: Delcers to -20 / -50 / -50; stop auto-resets
07D2E75C	28-Feb-04	59	17:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:06:15	Delcers to -50 / -50 / -50; resume auto-resets
07D33F40	29-Feb-04	60	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:21:30	Leap Day SC Anomaly: SC loss of attitude, eventual transition to Bdot, WindSat despun, SMEI uneffected
07D71098	2-Mar-04	62	21:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	04:02:30	SC returned to Reference Pt (normal attitude)
07DC79C0	7-Mar-04	67	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
07DC925C	7-Mar-04	67	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
07DCAAF8	7-Mar-04	67	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
07DCC394	7-Mar-04	67	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	04:03:55	
07E240A8	11-Mar-04	71	9:10	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:16:35	Camera 3 Image Anomaly, 2nd
07E5B440	14-Mar-04	74	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
07E5CCDC	14-Mar-04	74	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
07E5E578	14-Mar-04	74	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	no images due to anomaly
07E5FE14	14-Mar-04	74	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:12:15	
07E7FBD8	15-Mar-04	75	17:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:06:30	DHU Reset - Cam 3 Image Anomaly, 2nd
07E9A8C0	17-Mar-04	77	0:00	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
07E9C15C	17-Mar-04	77	1:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:09:37	
07ECEB98	19-Mar-04	79	11:22	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:12:38	Anomaly: All-Camera image problem
07EEEEC0	21-Mar-04	81	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
07EF075C	21-Mar-04	81	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
07EF1FF8	21-Mar-04	81	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
07EF3894	21-Mar-04	81	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:13:45	
07F14B70	22-Mar-04	82	19:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:05:00	DHU Reset: All-Camera image anomaly
07F2E340	24-Mar-04	84	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
07F2FBDC	24-Mar-04	84	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
07F31478	24-Mar-04	84	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
07F32D14	24-Mar-04	84	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	07:18:45	
07FD6F40	1-Apr-04	92	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
07FD87DC	1-Apr-04	92	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
07FDA078	1-Apr-04	92	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
07FDB914	1-Apr-04	92	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:04:40	
0805E3B4	7-Apr-04	98	9:55	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:01:05	DHU Anomaly
0805F2F0	7-Apr-04	98	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:13:00	Anomaly resolved by auto-reset
0806A9C0	8-Apr-04	99	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0806C25C	8-Apr-04	99	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0806DAF8	8-Apr-04	99	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
0806F394	8-Apr-04	99	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:11:15	
080F7AC8	14-Apr-04	105	16:30	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:00:20	Stop auto-resets
080F7F78	14-Apr-04	105	16:50	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:25	Frame Count Anomaly, little to no images
080F9364	14-Apr-04	105	18:15	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:07:15	includes SAA orbits
080FF958	15-Apr-04	106	1:30	1						-30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-27	1						-3	00:01:45	Delcers to -50 / -27 / -03
081011F4	15-Apr-04	106	3:15	1						-30	1						-27	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:45	

08102A90	15-Apr-04	106	5:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	45	DYN003	2x2	ON	OFF	CLOSED	OFF	100%	01:00:00	C3 HOT ANNEAL, C2 45deg ANNEAL; norm TC
08117C10	16-Apr-04	107	5:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:05:45	fast TC, SAA orbits
0811CCEC	16-Apr-04	107	10:45	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	
0811E588	16-Apr-04	107	12:30	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
0811FE24	16-Apr-04	107	14:15	1						-30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-27	1						-3	00:02:00	
08121A44	16-Apr-04	107	16:15	1						-30	1						-27	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:45	
081232E0	16-Apr-04	107	18:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:06:00	
08128740	17-Apr-04	108	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
08129FDC	17-Apr-04	108	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0812B878	17-Apr-04	108	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
0812D114	17-Apr-04	108	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:08:45	
0815EF20	19-Apr-04	110	14:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:02:30	**DHU Reset**, Frame Count Anomaly (code ver: 6)
081763C8	20-Apr-04	111	16:30	1						-30	1						-29	DYN001	1X1	ON	OFF	OPEN	OFF	-2	01:00:00	Delcers to -30 / -29 / -02
0818B548	21-Apr-04	112	16:30	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-29	1						-2	01:00:00	
081A06C8	22-Apr-04	113	16:30	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-29	1						-2	01:00:00	
081B5848	23-Apr-04	114	16:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:07:30	Delcers to -50 / -50 / -50
081BC1C0	24-Apr-04	115	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
081BDA5C	24-Apr-04	115	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
081BF2F8	24-Apr-04	115	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
081C0B94	24-Apr-04	115	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
0824FC40	1-May-04	122	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
082514DC	1-May-04	122	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
08252D78	1-May-04	122	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
08254614	1-May-04	122	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	05:15:34	
082BDB3C	6-May-04	127	5:05	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:15:44	Cam 3 Image Anomaly
082CB87C	6-May-04	127	20:49	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:19:41	**DHU Reset** (code ver: 7)
082DCD48	7-May-04	128	16:30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-27	1						-50	1						-50	00:01:55	Delcers to -27 / -50 / -50
082DE83C	7-May-04	128	18:25	4	4X4	ON	ON	OPEN	OFF	45	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:00:00	Cam 1 ANNEAL, Delcers to +45 / -50 / -50
082F39BC	8-May-04	129	18:25	4	4X4	ON	ON	OPEN	OFF	-27	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:05:05	Delcers to -27 / -50 / -50
082F8138	8-May-04	129	23:30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-27	1						-50	1						-50	00:01:45	
082F99D4	9-May-04	130	1:15	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	Delcers to -50 / -50 / -50
082FB270	9-May-04	130	3:00	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:15	
082FC404	9-May-04	130	4:15	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
082FDCA0	9-May-04	130	6:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:18:00	
08337CC0	12-May-04	133	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0833955C	12-May-04	133	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0833ADF8	12-May-04	133	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
0833C894	12-May-04	133	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
083CB740	19-May-04	140	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
083CCFDC	19-May-04	140	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
083CE878	19-May-04	140	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
083D0114	19-May-04	140	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	07:18:45	
08474340	27-May-04	148	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
08475BDC	27-May-04	148	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
08477478	27-May-04	148	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
08478D14	27-May-04	148	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
08507DC0	3-Jun-04	155	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0850965C	3-Jun-04	155	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0850AEF8	3-Jun-04	155	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
0850C794	3-Jun-04	155	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	05:18:45	
085866C0	9-Jun-04	161	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
08587F5C	9-Jun-04	161	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
085897F8	9-Jun-04	161	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
08586094	9-Jun-04	161	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	03:16:35	
085D8E48	12-Jun-04	164	21:50	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:21:57	Camera Image Anomaly
086165F4	15-Jun-04	167	19:47	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:20:28	**DHU Reset** (code ver: 1)
086285C4	16-Jun-04	168	16:15	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	Stop auto-resets
08629E60	16-Jun-04	168	18:00	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:06:00	includes SAA orbits
0862F2C0	17-Jun-04	169	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-27	1						-3	00:01:45	Delcers to -50 / -27 / -03
08630B5C	17-Jun-04	169	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-27	1						-3	00:01:45	
086323F8	17-Jun-04	169	3:30	1						-50	1						-27	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:45	

08633C94	17-Jun-04	169	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	87%	DYN003	2x2	ON	OFF	CLOSED	OFF	100%	01:00:00	C3 100% Anneal, C2 87% Anneal; norm TC
08648E14	18-Jun-04	170	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:05:45	fast TC, Delcers to -50 / -50 / -50; SAA orbits
0864DEF0	18-Jun-04	170	11:00	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	
0864F78C	18-Jun-04	170	12:45	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
08651028	18-Jun-04	170	14:30	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-27	1						-3	00:01:45	Delcers to -50 / -27 / -3
086528C4	18-Jun-04	170	16:15	1						-50	1						-27	DYN000	1X1	OFF	OFF	CLOSED	OFF	-3	00:01:45	
08654160	18-Jun-04	170	18:00	1						-30	1						-25	DYN001	1X1	ON	OFF	OPEN	OFF	-8	01:00:00	Delcers to -30 / -25 / -8
086692E0	19-Jun-04	171	18:00	1						-30	DYN001	1X1	ON	OFF	OPEN	OFF	-25	1						-8	01:00:00	
0867E460	20-Jun-04	172	18:00	DYN001	1X1	ON	OFF	OPEN	OFF	-30	1						-25	1						-8	01:00:00	
086935E0	21-Jun-04	173	18:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:06:00	Delcers to -50 / -50 / -50; resume auto-resets
086C2D40	24-Jun-04	176	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
086C45DC	24-Jun-04	176	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
086C5E78	24-Jun-04	176	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
086C7714	24-Jun-04	176	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
087567C0	1-Jul-04	183	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0875805C	1-Jul-04	183	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
087598F8	1-Jul-04	183	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
0875B194	1-Jul-04	183	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
087EA240	8-Jul-04	190	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
087EBADC	8-Jul-04	190	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
087ED378	8-Jul-04	190	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
087EEC14	8-Jul-04	190	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:02:58	
087F15CC	8-Jul-04	190	8:13	0							0							0							00:02:47	SEU caused inadvertent **Cold Boot** (code ver: 2)
087F3CF0	8-Jul-04	190	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	03:10:20	Soft-reset turned Cameras on
0883C2C0	11-Jul-04	193	21:20	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:05:26	Cx_FRM_EOF's stop incrementing; bogus temps, voltages, etc.
Rev 7836.0	12-Jul-04	194	2:46	0							0							0							01:18:31	**SMEI pwr'd down** via SMEI-03
Rev 7840.3	12-Jul-04	194	10:02	0							0							0								**S/C ACS anomaly**. SV to Safe Hold. ACS to B-dot. WindSat despun-->similar to 14 Jul 03 anomaly
Rev 7858.2	13-Jul-04	195	16:16	0							0							0								S/C recovery; returned to Ref Pt ACS mode
Rev 7861.1	13-Jul-04	195	21:17	0							0							0							00:01:42	**DHU pwr'd ON** via SMEI-02 (thru Stp 8)
Rev 7862.1	13-Jul-04	195	22:59	0							0							0							00:00:46	DHU pwr ON, con'd (thru Stp 10)
Rev 7862.1	13-Jul-04	195	23:45	4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		DYN002	2x2	ON	OFF	OPEN	OFF		03:00:15	**Soft reset pwr'd ON Cameras**
088A7FC0	17-Jul-04	199	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	Fast TC, Delcers to -50 / -50 / -50
088A985C	17-Jul-04	199	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
088AB0F8	17-Jul-04	199	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
088AC994	17-Jul-04	199	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	08:13:55	
08961948	25-Jul-04	207	19:10	0							0							0							00:22:26	SEU shut down SMEI
Rev 8043.2	26-Jul-04	208	17:36	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:06:09	**DHU reset** (Code Ver: 3)
Rev 8143.1	1-Aug-04	214	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:00:30	C3_FRM_EOF stops incrementing at soft-reset
Rev 8143.1	2-Aug-04	215	0:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:00:03	C1_FRM_EOF stops incrementing
Rev 8143.1	2-Aug-04	215	0:18	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:10:42	C2_FRM_EOF stops incrementing
Rev 8143.1	2-Aug-04	215	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:00:05	**soft-reset revives Cameras**
Rev 8143.1	2-Aug-04	215	11:05	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:00:15	C3_FRM_EOF stops incrementing
Rev 8143.1	2-Aug-04	215	11:20	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:00:05	C1_FRM_EOF stops incrementing
Rev 8143.1	2-Aug-04	215	11:25	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:07:22	C2_FRM_EOF stops incrementing
Rev 8143.1	2-Aug-04	215	18:47	0							0							0							00:01:48	**DHU reset**, part 1 (Code Ver: 4)
Rev 8144.1	2-Aug-04	215	20:35	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:03:25	**DHU reset**, part 2
08A23AC0	4-Aug-04	217	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
08A2535C	4-Aug-04	217	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
08A26BF8	4-Aug-04	217	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
08A28494	4-Aug-04	217	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:02:35	
08A54BE8	6-Aug-04	219	7:50	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:09:50	All frame counters stop incrementing.
08A5D630	6-Aug-04	219	17:40	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	04:06:20	**DHU reset** (Code Ver: 5)
08AB7540	11-Aug-04	224	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
08AB8DDC	11-Aug-04	224	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
08ABA678	11-Aug-04	224	3:30	4	4X4	ON	ON	OPEN	OFF	45	4	4X4	ON	ON	OPEN	OFF	100%	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:22:15	C2 HOT ANNEAL - 100%; C1 45deg ANNEAL; norm TC
08ACDF5C	12-Aug-04	225	1:45	1						45	1						100%	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
08ACF7F8	12-Aug-04	225	3:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	100%	00:08:30	C3 HOT ANNEAL - 100% (reached 78.5degC); Delcers to -50 / -50 / -50

08AD6F80	12-Aug-04	225	12:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						100%	00:01:45	
08AD881C	12-Aug-04	225	13:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						100%	00:01:45	
08ADA0B8	12-Aug-04	225	15:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	100%	00:12:00	
08AE4978	13-Aug-04	226	3:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:08:00	
08AEB9F8	13-Aug-04	226	11:30	14	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	00:01:45	fast TC
08AED294	13-Aug-04	226	13:15	1						-50	14	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	00:01:45	
08AEEB30	13-Aug-04	226	15:00	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
08AF03CC	13-Aug-04	226	16:45	1						-50	1						-50	14	1X1	OFF	OFF	OPEN	OFF	-50	00:01:45	
08AF1C68	13-Aug-04	226	18:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	05:05:30	
08B60140	19-Aug-04	232	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
08B619DC	19-Aug-04	232	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
08B63278	19-Aug-04	232	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
08B64B14	19-Aug-04	232	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:11:15	
08BED248	25-Aug-04	238	16:30	DYN001	1X1	ON	OFF	OPEN	OFF	-31	1						-22	1						-2	01:00:00	Delcers to -31 / -22 / -2
08C023C8	26-Aug-04	239	16:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:07:30	Delcers to -50 / -50 / -50
08C08D40	27-Aug-04	240	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
08C0A5DC	27-Aug-04	240	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
08C0BE78	27-Aug-04	240	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
08C0D714	27-Aug-04	240	5:15	1						-50	1						-22	DYN001	1X1	ON	OFF	OPEN	OFF	-2	01:00:00	Delcers to -50 / -22 / -2
08C22894	28-Aug-04	241	5:15	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-22	1						-2	01:00:00	
08C37A14	29-Aug-04	242	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:05:26	Delcers to -50 / -50 / -50
08C517FC	30-Aug-04	243	10:41	0							0							0							00:00:19	**DHU crash & reset**
08C51C70	30-Aug-04	243	11:00	4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		DYN002	2x2	ON	OFF	OPEN	OFF		05:13:00	
08CC6AC0	5-Sep-04	249	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF		1							1							00:01:45	
08CC835C	5-Sep-04	249	1:45	1							DYN000	1X1	OFF	OFF	CLOSED	OFF		1							00:01:45	
08CC9BF8	5-Sep-04	249	3:30	1							1							DYN000	1X1	OFF	OFF	CLOSED	OFF		00:01:45	
08CCB494	5-Sep-04	249	5:15	4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		DYN002	2x2	ON	OFF	OPEN	OFF		02:05:56	
08CFAB04	7-Sep-04	251	11:11	4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		DYN002	2x2	ON	OFF	OPEN	OFF		00:04:07	Camera Image Anomaly - black images
08CFE4E8	7-Sep-04	251	15:18	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	04:01:12	**DHU Reset** (Code Ver: 6)
08D53BC8	11-Sep-04	255	16:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
08D55464	11-Sep-04	255	18:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	100%	01:00:00	C3 HOT ANNEAL - 100%, norm TC
08D6A5E4	12-Sep-04	256	18:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:05:45	
08D6F6C0	13-Sep-04	257	0:00	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	fast TC
08D70F5C	13-Sep-04	257	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
08D727F8	13-Sep-04	257	3:30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
08D74094	13-Sep-04	257	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	08:04:39	
08E20DF8	21-Sep-04	265	9:54	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:05:44	Camera Image Anomaly, SAA-related
08E3B018	22-Sep-04	266	15:38	0						-50	0						-50	0						-50	00:02:08	**DHU Reset** (Code Ver: 7)
08E3CE18	22-Sep-04	266	17:46	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:06:14	**Reset con'd**
08E425C0	23-Sep-04	267	0:00	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
08E43E5C	23-Sep-04	267	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
08E456F8	23-Sep-04	267	3:30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
08E46F94	23-Sep-04	267	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:02:55	
08E49898	23-Sep-04	267	8:10	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:14:05	Camera Image Anomaly, SAA-related. Skipped frames (45% in Cams 1 & 2)
08E55EA4	23-Sep-04	267	22:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:12:47	**DHU Reset** (Code Ver: 0)
08E763E8	25-Sep-04	269	11:02	0							0							0							00:10:23	Inadvertent Reboot Anomaly. SMEI found in BOOT mode with Cams off. (Code Ver. Incremented: 1)
08E7F5EC	25-Sep-04	269	21:25	0							0							0							00:01:45	SMEI pwr'd off; pwr'd on
08E80E88	25-Sep-04	269	23:10	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:19:48	**DHU Reset** (Code Ver: 2)
08EA7678	27-Sep-04	271	18:58	0							0							0							00:03:47	Inadvertent Reboot Anomaly. SMEI found in CONFIG mode with Cams off. (Code Ver. DID NOT increment: 2)
08EAABAC	27-Sep-04	271	22:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:01:15	**DHU Reset** (Code Ver: 3)
08EC0EC0	29-Sep-04	273	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
08EC275C	29-Sep-04	273	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
08EC3FF8	29-Sep-04	273	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
08EC5894	29-Sep-04	273	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
08F54940	6-Oct-04	280	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
08F561DC	6-Oct-04	280	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
08F57A78	6-Oct-04	280	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	

08F59314	6-Oct-04	280	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:18:32	
08F7E934	7-Oct-04	281	23:47	0							0							0							00:11:13	Inadvertent Reboot occurred at auto-reset: SMEI in CONFIG, Cams off (Code Ver: 4)
08F886F0	8-Oct-04	282	11:00	4	4X4	ON	ON	OPEN	OFF		4	4X4	ON	ON	OPEN	OFF		DYN002	2x2	ON	OFF	OPEN	OFF		04:13:00	auto-reset
08FE83C0	13-Oct-04	287	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
08FE9C5C	13-Oct-04	287	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
08FEB4F8	13-Oct-04	287	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
08FECD94	13-Oct-04	287	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:17:19	
09011298	14-Oct-04	288	22:34	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:01:26	ACS anomaly - SC transitioned to Bdot
090126C0	15-Oct-04	289	0:00	1						-37	1						-31	DYN001	1X1	ON	OFF	OPEN	OFF	-1	00:16:15	Delcers to -37 / -31 / -1-->cmd'ng planned but not executed due to SC anomaly
09020B44	15-Oct-04	289	16:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:07:45	SC returned to Reference Pt (normal attitude)
09027840	16-Oct-04	290	0:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	01:00:00	
0903C9C0	17-Oct-04	291	0:00	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	1						-50	01:00:00	
09051B40	18-Oct-04	292	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:08:41	Delcers to -50 / -50 / -50
0906E6DC	19-Oct-04	293	8:41	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:09:09	Image Anomaly: Camera EOF frames stopped incrementing
09076788	19-Oct-04	293	17:50	0						-50	0						-50	0						-50	00:02:15	DHU reset, part 1: SMEI-05, -25 executed (Code Ver: 5)
0907672C	19-Oct-04	293	20:05	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:03:55	DHU reset, part 2: SMEI-24 executed
0907BE40	20-Oct-04	294	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0907D6DC	20-Oct-04	294	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0907EF78	20-Oct-04	294	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
09080814	20-Oct-04	294	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:11:15	
09084948	22-Oct-04	296	16:30	1						-50	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	01:00:00	repeat of attempted observation from 15 Oct
090C9AC8	23-Oct-04	297	16:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:07:30	
090D0440	24-Oct-04	298	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
090D1CDC	24-Oct-04	298	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
090D3578	24-Oct-04	298	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:10:30	includes SAA orbits
090DC920	24-Oct-04	298	14:00	1						-50	1						-50	DYN005	1X1	ON	OFF	CLOSED	OFF	-50	00:10:45	includes SAA orbits
090E604C	25-Oct-04	299	0:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:23:01	
0910F578	26-Oct-04	300	23:46	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:16:17	Image Anomaly: Camera EOF frames stopped incrementing
0911DA74	27-Oct-04	301	16:03	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:15:12	DHU Reset (Code Ver: 6)
091401B4	29-Oct-04	303	7:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:09:15	Anomaly: frozen analog monitors
0915D548	30-Oct-04	304	16:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	pre-anneal cal
0915EDE4	30-Oct-04	304	18:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	100%	01:00:00	C3 HOT ANNEAL - 100%, norm TC
09173F64	31-Oct-04	305	18:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:04:30	
09177EAC	31-Oct-04	305	22:45	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	post-anneal cal / weekly cal
09179748	1-Nov-04	306	0:30	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0917AFE4	1-Nov-04	306	2:15	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0917C880	1-Nov-04	306	4:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:13:35	
09188784	1-Nov-04	306	17:35	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	04:01:45	DHU Reset, Frozen Analog Monitor Anomaly (Code Ver: 7)
091DE620	5-Nov-04	310	19:20	0							0							0							00:03:35	Inadvertent Reboot (Code Ver: 0)
091E1884	5-Nov-04	310	22:55	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:01:05	DHU Reset... to be sure (Code Ver: 1)
092610C0	12-Nov-04	317	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0926295C	12-Nov-04	317	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
092641F8	12-Nov-04	317	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
09265A94	12-Nov-04	317	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	05:18:45	
092DF9C0	18-Nov-04	323	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
092E125C	18-Nov-04	323	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
092E2AF8	18-Nov-04	323	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
092E4394	18-Nov-04	323	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:05:45	
09313770	20-Nov-04	325	11:00	0							0							0							00:07:40	Anomaly: uncommanded CONFIG mode during soft reset
0931A340	20-Nov-04	325	18:40	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:00:00	DHU reset, Uncommanded CONFIG mode anomaly
0931A340	20-Nov-04	325	18:40	0							0							0							01:21:35	Anomaly: C3 buffer full anomaly (failed reset)
09342444	22-Nov-04	327	16:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:07:45	DHU reset, C3 buffer full anomaly
0935E2C0	24-Nov-04	329	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0935FB5C	24-Nov-04	329	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
093613F8	24-Nov-04	329	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
09362C94	24-Nov-04	329	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	

093F1D40	1-Dec-04	336	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
093F35DC	1-Dec-04	336	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
093F4E78	1-Dec-04	336	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
093F6714	1-Dec-04	336	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
094857C0	8-Dec-04	343	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0948705C	8-Dec-04	343	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
094888F8	8-Dec-04	343	3:30	1						-50	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
0948A194	8-Dec-04	343	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:18:45	
094AFAC0	10-Dec-04	345	0:00	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	1						-50	01:00:00	
094C4C40	11-Dec-04	346	0:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	01:00:00	
094D9DC0	12-Dec-04	347	0:00	1						-50	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	01:00:00	
094EEF40	13-Dec-04	348	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:00:00	
09519240	15-Dec-04	350	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0951AADC	15-Dec-04	350	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0951C378	15-Dec-04	350	3:30	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
0951DC14	15-Dec-04	350	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	05:17:45	
09596D30	20-Dec-04	355	23:00	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	pre-anneal cal
095985CC	21-Dec-04	356	0:45	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
09599E68	21-Dec-04	356	2:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	100%	DYN002	2x2	ON	OFF	OPEN	OFF	100%	01:00:00	C2 & C3 HOT ANNEAL - 100%, norm TC
095AEFE8	22-Dec-04	357	2:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:07:26	
091DE620	22-Dec-04	357	9:56	0							0							0							00:11:09	Anomaly: camera fault
095BF53C	22-Dec-04	357	21:05	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:06:40	DHU reset, camera fault anomaly (Memogram 257)
095C52FC	23-Dec-04	358	3:45	1						-50	1						-50	DYN008	1X1	ON	OFF	CLOSED	OFF	-50	00:11:45	Part of C3 extended cal - includes SAA orbits
095CF838	23-Dec-04	358	15:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:01:00	
095FA948	25-Dec-04	360	16:30	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	rescheduled post-anneal / weekly cal
095FA948	25-Dec-04	360	18:15	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:09:00	Remainder of C3 extended cal
095FA948	26-Dec-04	361	3:15	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	rescheduled post-anneal / weekly cal
095FA948	26-Dec-04	361	5:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:19:00	
09640740	29-Dec-04	364	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
09641FDC	29-Dec-04	364	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
09643678	29-Dec-04	364	3:30	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
09645114	29-Dec-04	364	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	#REF!	

Non-standard Operation	*Camera*	*Mode #*	*Frequency*	*Constraints*	*Primary Data Analyst*
Weekly Calibration	all	DYN000	every week	floating temps	J. Tappin
2-day Engineering Mode Observation	all	DYN001	every 2 months (first year)	no moon in FOV, floating temps	A. Buffington
High Flat Field Calibration	all	13	every 4 months	floating temps	A. Buffington

SMEI Camera Configuration Log: 2005

Notes:
Times are for beginning of pass in which event occurred; exact time of execution may be up to 15 mins later.
Blue font denotes planned activities.
Red font denotes problems & anomalies.
Green font denotes WindSat activity.
Magenta font denotes a Spacecraft anomaly.
Orange font denotes CCD annealing.

				Camera 1							Camera 2							Camera 3								
Rev # or UTC (hex)	Date	JD	Time (Zulu)	Mode	CCD Bin'g	ROI	FF Corre-ction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Correction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Correction	Shutter Position	FF LED	De-Icer set pt.	Obs Duration (DD:HH:MM)	Comments
096D41C0	5-Jan-05	5	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
096D5A5C	5-Jan-05	5	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
096D72F8	5-Jan-05	5	3:30	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
096D8B94	5-Jan-05	5	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
09767C40	12-Jan-05	12	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
097694DC	12-Jan-05	12	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0976AD78	12-Jan-05	12	3:30	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
0976C614	12-Jan-05	12	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
097FB6C0	19-Jan-05	19	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
097FCF5C	19-Jan-05	19	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
097FE7F8	19-Jan-05	19	3:30	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
09800094	19-Jan-05	19	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
0988F140	26-Jan-05	26	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
098909DC	26-Jan-05	26	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
09892278	26-Jan-05	26	3:30	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
09893B14	26-Jan-05	26	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:04:33	
098ACC90	27-Jan-05	27	9:48	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:15:03	**IMU anomaly** - SC transitioned to Bdot
098BA034	28-Jan-05	28	0:51	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	04:10:09	SC returned to Reference Pt (normal attitude)
099174F0	1-Feb-05	32	11:00	4	4X4	ON	ON	OPEN	OFF	>45	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:06:22	Camera 1 heater anomaly (deicer stuck on)
0991CE78	1-Feb-05	32	17:22	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:06:38	DHU reset, C1 heater anomaly (Memogram 299)
09922BC0	2-Feb-05	33	0:00	1						-50	1						-50	14	1X1	OFF	OFF	OPEN	OFF	-50	00:03:30	start C3 anniversary obs (interrrupted)
09925CF8	2-Feb-05	33	3:30	1						-50	1						-50	10	1X1	OFF	OFF	FF	ON	-50	00:01:45	
09927594	2-Feb-05	33	5:15	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:07:00	
0992D804	2-Feb-05	33	12:15	0						-50	0						-50	0						-50	00:08:45	Commanding file error - SMEI to CONFIG mode
09935310	2-Feb-05	33	21:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:03:00	normal obs resumed
09937D40	3-Feb-05	34	0:00	14	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	00:03:30	C1 Anniversaroy obs
0993AE78	3-Feb-05	34	3:30	10	1X1	OFF	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	
0993C714	3-Feb-05	34	5:15	DYN000	1X1	ON	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:07:00	
09942984	3-Feb-05	34	12:15	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	
09944220	3-Feb-05	34	14:00	15	1X1	ON	ON	FF	ON	-50	1						-50	1						-50	00:01:45	
09945ABC	3-Feb-05	34	15:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:20:30	
0996CC84	5-Feb-05	36	12:15	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	complete C3 anniversary obs
0996E520	5-Feb-05	36	14:00	1						-50	1						-50	15	1X1	ON	ON	FF	ON	-50	00:01:45	
0996FDBC	5-Feb-05	36	15:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:08:15	
099771C0	6-Feb-05	37	0:00	1						-50	14	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	00:03:30	C2 Anniversary obs
0997A2F8	6-Feb-05	37	3:30	1						-50	10	1X1	OFF	OFF	FF	ON	-50	1						-50	00:01:45	
0997B894	6-Feb-05	37	5:15	1						-50	DYN000	1X1	ON	OFF	CLOSED	OFF	-50	1						-50	00:07:00	
09981E04	6-Feb-05	37	12:15	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	
099836A0	6-Feb-05	37	14:00	1						-50	15	1X1	ON	ON	FF	ON	-50	1						-50	00:01:45	
09984F3C	6-Feb-05	37	15:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:08:15	
0998C340	7-Feb-05	38	0:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	01:00:00	C2 one-day engineering
099A14C0	8-Feb-05	39	0:00	1						-50	1						-50	DYN007	1X1	ON	OFF	OPEN	OFF	-50	01:00:00	C3 one-day engineering
099B6640	9-Feb-05	40	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
099B7EDC	9-Feb-05	40	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
099B9778	9-Feb-05	40	3:30	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
099BB014	9-Feb-05	40	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:18:45	

099CB7C0	10-Feb-05	41	0:00	DYN001	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	01:00:00	C1 one-day engineering
099E0940	11-Feb-05	42	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	02:01:08	
09A0BC30	13-Feb-05	44	1:08	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	1X1	ON	OFF	CLOSED	OFF	-50	00:16:05	WINDSAT BAPTA anomaly - CORIOLIS => B-dot
09A19E5C	13-Feb-05	44	17:13	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:06:47	
09A34F40	15-Feb-05	46	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
09A367DC	15-Feb-05	46	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
09A38078	15-Feb-05	46	3:30	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
09A39914	15-Feb-05	46	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	100%	00:12:00	C3 HOT ANNEAL - 100%, norm TC (12 hrs)
09A441D4	15-Feb-05	46	17:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:10:15	
09A4D1F8	16-Feb-05	47	3:30	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	post-anneal cal
09A4EA94	16-Feb-05	47	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
09ADDB40	23-Feb-05	54	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
09ADF3DC	23-Feb-05	54	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
09AE0C78	23-Feb-05	54	3:30	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
09AE2514	23-Feb-05	54	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	01:10:35	
09B00B68	24-Feb-05	55	15:50	0						-50	0						-50	0						-50	00:01:40	patch34 & new command uploads
09B022D8	24-Feb-05	55	17:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	05:06:30	
09B715C0	2-Mar-05	61	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
09B72E5C	2-Mar-05	61	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
09B746F8	2-Mar-05	61	3:30	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
09B75F94	2-Mar-05	61	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:18:45	
09B86740	3-Mar-05	62	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN009	2x2	ON	OFF	OPEN	OFF	-50	01:20:16	switch to DYN009 mode via tasking file
09BAD5C0	4-Mar-05	63	20:16	0						-50	0						-50	0						-50	00:00:05	
09BAD6EC	4-Mar-05	63	20:21	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN009	2x2	ON	OFF	OPEN	OFF	-50	04:03:39	reset via SMEI-06 (test)
09C05040	9-Mar-05	68	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
09C068DC	9-Mar-05	68	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
09C08178	9-Mar-05	68	3:30	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
09C09A14	9-Mar-05	68	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN009	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
09C98AC0	16-Mar-05	75	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
09C9A35C	16-Mar-05	75	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
09C9BBF8	16-Mar-05	75	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	switch to DYN011 modee via tasking file
09C9D494	16-Mar-05	75	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	switch to DYN010 modee via tasking file
09D2C540	23-Mar-05	82	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
09D2DDDC	23-Mar-05	82	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
09D2F678	23-Mar-05	82	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
09D30F14	23-Mar-05	82	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
09DBFFC0	30-Mar-05	89	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
09DC185C	30-Mar-05	89	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
09DC30F8	30-Mar-05	89	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
09DC4994	30-Mar-05	89	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:18:30	
09DD4DBC	30-Mar-05	89	23:45	0						-50	0						-50	0						-50	00:05:59	ANOMALY: Failed auto-reset - SMEI left in BOOT mode
09DDA1E0	31-Mar-05	90	5:44	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	05:18:16	DHU reset, SMEI-06
09E36724	4-Apr-05	94	14:47	0						-50	0						-50	0						-50	01:10:58	ANOMALY: C3 Shutter Closed (Not). Started ~24 hrs earlier
09E37B4C	4-Apr-05	94	16:13	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:11:17	DHU reset, SMEI-06
09E53A40	6-Apr-05	96	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly + pre-anneal cals
09E552DC	6-Apr-05	96	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
09E56B78	6-Apr-05	96	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
09E58414	6-Apr-05	96	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	100%	00:12:00	C3 HOT ANNEAL - 100%, norm TC (12 hrs)
09E62CD4	6-Apr-05	96	17:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:06:45	cool-down - 6 3/4 hrs
09E68BC0	7-Apr-05	97	0:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:07:00	post-anneal cal - 4 non-SAA orbits
09E6EE30	7-Apr-05	97	7:00	1						-50	1						-50	DYN007	1X1	ON	OFF	OPEN	OFF	-50	01:00:00	C3 one-day engineering
09E83FB0	8-Apr-05	98	7:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:17:00	normal mode for solar eclipse
09EA8040	10-Apr-05	100	0:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	01:00:00	C2 one-day engineering
09EBD1C0	11-Apr-05	101	0:00	DYN001	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	01:00:00	C1 one-day engineering
09ED2340	12-Apr-05	102	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:00:00	
09EE74C0	13-Apr-05	103	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
09EE8D5C	13-Apr-05	103	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
09EEA5F8	13-Apr-05	103	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
09EEBE94	13-Apr-05	103	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
09F7AF40	20-Apr-05	110	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	

09F7C7DC	20-Apr-05	110	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
09F7E078	20-Apr-05	110	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
09F7F914	20-Apr-05	110	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	04:14:52	
09FE1024	24-Apr-05	114	20:07	0						-50	0						-50	0						-50	00:02:08	ANOMALY: Frozen frame counter
09FE2E24	24-Apr-05	114	22:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:00:50	DHU reset, SMEI-06
0A00DCDC	26-Apr-05	116	23:05	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:03:20	WINDSAT spinup anomaly - CORIOLIS => B-dot
0A010BBC	27-Apr-05	117	2:25	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:05	Recovery completed: SMEI begins (interrupted) weekly cal via stored commanding file
0A011AF8	27-Apr-05	117	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A013394	27-Apr-05	117	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	04:18:05	
0A035FFC	28-Apr-05	118	20:49																							CORIOLIS commanded to Sun-Point mode
0A0777E0	1-May-05	121	23:20	0						-50	0						-50	0						-50	00:03:09	ANOMALY: Cameras "Off"
0A07A42C	2-May-05	122	2:29	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:13:31	DHU reset, SMEI-06, memogram 316
0A09FC68	3-May-05	123	21:10																							Partition redumps started, memogram 317
0A0B0540	4-May-05	124	16:00	DYN001	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	00:10:30	C1 6-orbit engineering mode obs
0A0B98E8	5-May-05	125	2:30	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly + pre-anneal cals
0A0BB184	5-May-05	125	4:15	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A0BCA20	5-May-05	125	6:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A0BE2BC	5-May-05	125	7:45	4	4X4	ON	ON	OPEN	OFF	100%	4	4X4	ON	ON	OPEN	OFF	100%	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:12:00	C1&C2 HOT ANNEAL - 100%, norm TC (12 hrs)
0A0C8B7C	5-May-05	125	19:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:04:15	cool-down - 4 1/4 hrs
0A0CC740	6-May-05	126	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	post-anneal cal, C1 & C2
0A0CDFDC	6-May-05	126	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A0CF878	6-May-05	126	3:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:20:30	
0A10BBC0	9-May-05	129	0:00	1						-50	DYN001	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	00:10:30	
0A114F68	9-May-05	129	10:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:13:30	
0A135EC0	11-May-05	131	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0A13775C	11-May-05	131	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A138FF8	11-May-05	131	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A13A894	11-May-05	131	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	07:18:45	
0A1DEAC0	19-May-05	139	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0A1E035C	19-May-05	139	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A1E1BF8	19-May-05	139	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A1E3494	19-May-05	139	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	05:18:45	
0A2037BC	20-May-05	140	17:53																							Partition redumps stopped, memogram 319
0A206DC0	21-May-05	141	0:00																							C3 anomaly onset (approx), memogram 320
0A25D3C0	25-May-05	145	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0A25EC5C	25-May-05	145	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A2604F8	25-May-05	145	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A261D94	25-May-05	145	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:11:01	
0A26B880	25-May-05	145	16:16	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:09:29	DHU reset, SMEI-06, memogram 320
0A2F0E40	1-Jun-05	152	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0A2F26DC	1-Jun-05	152	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A2F3F78	1-Jun-05	152	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A2F5814	1-Jun-05	152	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
0A3848C0	8-Jun-05	159	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly + pre-anneal cals
0A38615C	8-Jun-05	159	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A3879F8	8-Jun-05	159	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A389294	8-Jun-05	159	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	100%	00:12:00	C3 HOT ANNEAL - 100%, norm TC (12 hrs)
0A393B54	8-Jun-05	159	17:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:06:45	cool-down - 6 3/4 hrs
0A398528	8-Jun-05	159	22:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50		(approx) CORIOLIS returned to Ref-Point mode
0A399A40	9-Jun-05	160	0:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:07:00	post-anneal cal - 4 non-SAA orbits
0A39FCB0	9-Jun-05	160	7:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:17:00	resume normal mode obs
0A3AEBC0	10-Jun-05	161	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:15:21	camera anomaly onset (approx), memo 327
0A3BC39C	10-Jun-05	161	15:21	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	04:08:39	DHU reset, SMEI-06, memogram 327
0A418340	15-Jun-05	166	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cals
0A419BDC	15-Jun-05	166	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A41B478	15-Jun-05	166	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A41CD14	15-Jun-05	166	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:18:30	
0A45743C	17-Jun-05	168	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:21:24	camera anomaly onset (approx), memo 330

0A46A12C	18-Jun-05	169	21:09	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	03:02:51	DHU reset, SMEI-06, memogram 330
0A4A8DC0	22-Jun-05	173	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cals
0A4AD65C	22-Jun-05	173	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A4AEEF8	22-Jun-05	173	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A4B0794	22-Jun-05	173	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:15:58	
0A53D11C	28-Jun-05	179	21:13	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:05:16	boot mode anomaly onset (approx), memo 331
0A541B2C	29-Jun-05	180	2:29	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:01:01	DHU reset, SMEI-06, memogram 331
0A542978	29-Jun-05	180	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	weekly cal (partial - anomaly interrupt)
0A544214	29-Jun-05	180	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	03:18:45	
0A593E40	3-Jul-05	184	0:00	DYN001	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	01:00:00	C1 one-day engineering
0A5A8FC0	4-Jul-05	185	0:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	01:00:00	C2 one-day engineering
0A5BE140	5-Jul-05	186	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cals
0A5BF9DC	5-Jul-05	186	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A5C1278	5-Jul-05	186	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A5C2B14	5-Jul-05	186	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:18:45	
0A5D32C0	6-Jul-05	187	0:00	1						-50	1						-50	DYN007	1X1	ON	OFF	OPEN	OFF	-50	01:00:00	C3 one-day engineering
0A5E8440	7-Jul-05	188	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:00:00	resume normal mode
0A607070	8-Jul-05	189	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:07:32	auto-reset anomaly onset, memo 332
0A60DA60	8-Jul-05	189	18:32	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	04:05:28	DHU reset, SMEI-06, memogram 332
0A6505B8	11-Jul-05	192	22:26	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:20:44	camera image anomaly onset, memo 333
0A662948	12-Jul-05	193	19:10	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:08:20	DHU reset, SMEI-06, memogram 333
0A666D40	13-Jul-05	194	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cals
0A6685DC	13-Jul-05	194	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A669E78	13-Jul-05	194	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A66B714	13-Jul-05	194	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:05:45	
0A69AAF0	15-Jul-05	196	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:05:57	auto-reset anomaly onset, memo 335
0A69FE9C	15-Jul-05	196	16:57	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	04:10:33	DHU reset, SMEI-06, memogram 335
0A6FA7C0	20-Jul-05	201	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cals
0A6FC05C	20-Jul-05	201	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A6FD8F8	20-Jul-05	201	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A6FF194	20-Jul-05	201	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
0A78E240	27-Jul-05	208	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cals
0A78FADC	27-Jul-05	208	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A791378	27-Jul-05	208	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A792C14	27-Jul-05	208	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
0A821CC0	3-Aug-05	215	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cals
0A82355C	3-Aug-05	215	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A824DF8	3-Aug-05	215	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A826894	3-Aug-05	215	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
0A8B5740	10-Aug-05	222	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cals
0A8B6FDC	10-Aug-05	222	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A8B6878	10-Aug-05	222	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A8BA114	10-Aug-05	222	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	04:17:25	
0A91DC00	14-Aug-05	226	22:40	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:15:52	camera parity anomaly onset, memo 337
0A92BB1F	15-Aug-05	227	14:32	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:09:28	DHU reset, SMEI-06, memogram 337
0A9491C0	17-Aug-05	229	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly + pre-anneal cals
0A94AA5B	17-Aug-05	229	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A94C2F8	17-Aug-05	229	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A94DB94	17-Aug-05	229	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	100%	DYN010	2x2	ON	OFF	OPEN	OFF	100%	00:06:05	C2 & C3 HOT ANNEAL - 100%, norm TC (6 hrs)
0A953120	17-Aug-05	229	11:20	4	4X4	ON	ON	OPEN	OFF	100%	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	100%	00:06:10	C1 & C3 HOT ANNEAL - 100%, norm TC (6 hrs)
0A9587D7	17-Aug-05	229	17:30	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	C2 post-anneal cal
0A95A074	17-Aug-05	229	19:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:04:45	cool-down (C1 & C3) + SAA avoidance
0A95E340	18-Aug-05	230	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	C1 post-anneal cal
0A95FBDB	18-Aug-05	230	1:45	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	C3 post-anneal cal
0A961478	18-Aug-05	230	3:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	05:20:30	resume normal mode obs
0A9DCC40	24-Aug-05	236	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cals
0A9DE4DB	24-Aug-05	236	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0A9DFD78	24-Aug-05	236	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0A9E1614	24-Aug-05	236	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:17:15	
0AA1ABA8	26-Aug-05	238	22:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:15:53	Anomaly. memogram 341

0AA28B04	27-Aug-05	239	14:23	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	03:09:37	DHU reset, SMEI-06
0AA706C0	31-Aug-05	243	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cals
0AA71F5B	31-Aug-05	243	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0AA737F8	31-Aug-05	243	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0AA75094	31-Aug-05	243	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:15:29	
0AA97BD0	1-Sep-05	244	20:44	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:05:12	Anomaly, memogram 342
0AA9C4F0	2-Sep-05	245	1:56	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:22:04	DHU reset, SMEI-06
0AAAFB40	3-Sep-05	246	0:00	1						-50	1						-50	DYN007	1X1	ON	OFF	OPEN	OFF	-50	01:00:00	C3 one-day engineering
0AAC4CC0	4-Sep-05	247	0:00	DYN001	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	00:08:58	C1 one-day engineering (aborted by anomlay)
0AACCAD8	4-Sep-05	247	8:58	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:07:42	Anomaly, memogram 343
0AAD3720	4-Sep-05	247	16:40	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:07:20	DHU reset, SMEI-06
0AAD9E40	5-Sep-05	248	0:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	02:00:00	C2 one-day engineering
0AB04140	7-Sep-05	250	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cals
0AB059DB	7-Sep-05	250	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0AB07278	7-Sep-05	250	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0AB08B14	7-Sep-05	250	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:23:57	
0AB32D60	9-Sep-05	252	5:12	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:05:09	Anomaly, memogram 344
0AB375CC	9-Sep-05	252	10:21	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	04:13:39	DHU reset
0AB97BC0	14-Sep-05	257	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cals
0AB9945B	14-Sep-05	257	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0AB9ACF8	14-Sep-05	257	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0AB9C594	14-Sep-05	257	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:08:54	
0AC22BBC	20-Sep-05	263	14:09	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:06:17	Anomaly, memogram 345
0AC28418	20-Sep-05	263	20:26	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:03:34	DHU reset
0AC2B640	21-Sep-05	264	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cals
0AC2CEDB	21-Sep-05	264	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0AC2E778	21-Sep-05	264	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0AC30014	21-Sep-05	264	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:14:45	
0ACBB880	27-Sep-05	270	20:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:01:20	IMU anomaly - SC transitioned to Bdot
0ACBCB3F	27-Sep-05	270	21:20	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:02:03	IMU Reset
0ACBE814	27-Sep-05	270	23:23	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN002	2x2	ON	OFF	OPEN	OFF	-50	00:00:37	Coriolis Anomaly Dump, Memogram 346
0ACBF0C0	28-Sep-05	271	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cals
0ACC095B	28-Sep-05	271	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0ACC21F8	28-Sep-05	271	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0ACC3A94	28-Sep-05	271	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:22:32	
0ACEC8F4	30-Sep-05	273	3:47	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	04:20:13	Coriolis Anomaly Dump, Memogram 350
0ACF7880	30-Sep-05	273	16:16	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50		Windsat Spin Prep, Memogram 351
0AD3B83C	3-Oct-05	276	21:37	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50		Windsat Spin Activity, Memogram 353
0AD4C5C3	4-Oct-05	277	16:47	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50		Windsat Spin Complete, Memogram 354
0AD52B40	5-Oct-05	278	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cals
0AD543DB	5-Oct-05	278	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0AD55C78	5-Oct-05	278	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0AD57514	5-Oct-05	278	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
0ADE65C0	12-Oct-05	285	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cals
0ADE7E5B	12-Oct-05	285	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0ADE96F8	12-Oct-05	285	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	07:20:30	
0ADEAF94	12-Oct-05	285	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	
0ADF7C2F	12-Oct-05	285	19:48	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:02:33	Anomaly, Memogram 355
0ADFA00C	12-Oct-05	285	22:21	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:01:39	DHU Reset
0AE7A040	19-Oct-05	292	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly & pre-anneal cal
0AE7B8DB	19-Oct-05	292	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0AE7D178	19-Oct-05	292	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0AE7EA14	19-Oct-05	292	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	100%	00:18:45	C3 HOT ANNEAL - 100%, norm TC (12 hrs)
0AE8F1C0	20-Oct-05	293	0:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:07:00	C3 post-anneal cal
0AE9542F	20-Oct-05	293	7:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	04:04:00	resume normal mode obs
0AEED270	24-Oct-05	297	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:04:39	Anomaly, Memogram 357
0AEF13D4	24-Oct-05	297	15:39	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:11:01	DHU Reset
0AEFAEC0	25-Oct-05	298	2:40	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:11:15	Anomaly, Memogram 358
0AF04CF4	25-Oct-05	298	13:55	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:10:05	DHU Reset
0AF0DAC0	26-Oct-05	299	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0AF0F35B	26-Oct-05	299	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0AF10BF8	26-Oct-05	299	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	

0AF12494	26-Oct-05	299	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:11:53	resume normal mode obs
0AF31D30	27-Oct-05	300	17:08	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:23:28	Coriolis/WINDSAT Anomaly
0AF46730	28-Oct-05	301	16:36	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:07:24	CORIOLIS back to ref point mode
0AF77240	31-Oct-05	304	0:00	DYN001	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	01:00:00	C1 one-day engineering
0AF8C3C0	1-Nov-05	305	0:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	01:00:00	C2 one-day engineering
0AFA1540	2-Nov-05	306	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0AFA2DDB	2-Nov-05	306	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0AFA4678	2-Nov-05	306	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0AFA5F14	2-Nov-05	306	5:15	1						-50	1						-50	DYN007	1X1	ON	OFF	OPEN	OFF	-50	01:00:00	C3 one-day engineering
0AFBB094	3-Nov-05	307	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	05:18:45	resume normal mode obs
0B034FC0	9-Nov-05	313	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0B03685B	9-Nov-05	313	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0B0380F8	9-Nov-05	313	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0B039994	9-Nov-05	313	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:15:45	resume normal mode obs
0B0C6010	15-Nov-05	319	21:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:18:21	Anomaly, Memogram 373
0B0EB39B	17-Nov-05	321	15:21	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	05:08:39	DHU Reset
0B126AF0	20-Nov-05	324	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:08:29	Anomaly, Memogram 374
0B12E23C	20-Nov-05	324	19:29	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:08:01	DHU Reset
0B15C4C0	23-Nov-05	327	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0B15DD5B	23-Nov-05	327	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0B15F5F8	23-Nov-05	327	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0B160E94	23-Nov-05	327	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	07:18:45	resume normal mode obs
0B2050C0	1-Dec-05	335	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0B20695B	1-Dec-05	335	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0B2081F8	1-Dec-05	335	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0B209A94	1-Dec-05	335	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	05:11:17	resume normal mode obs
0B27D0C0	6-Dec-05	340	16:32																						00:00:30	patch-35 code upload (nominal)
0B27D7C8	6-Dec-05	340	17:02																						00:06:58	
0B2839C0	7-Dec-05	341	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly & pre-anneal cal
0B28525B	7-Dec-05	341	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0B286AF8	7-Dec-05	341	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0B288394	7-Dec-05	341	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	100%	00:18:45	C3 HOT ANNEAL - 100%, norm TC (12 hrs)
0B298B40	8-Dec-05	342	0:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:07:00	C3 post-anneal cal
0B29EDAF	8-Dec-05	342	7:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	05:17:00	resume normal mode obs
0B317440	14-Dec-05	348	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0B318CDB	14-Dec-05	348	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0B31A578	14-Dec-05	348	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0B31BE14	14-Dec-05	348	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	resume normal mode obs
0B3AAEC0	21-Dec-05	355	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0B3AC75B	21-Dec-05	355	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0B3ADFF8	21-Dec-05	355	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0B3AF894	21-Dec-05	355	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	resume normal mode obs
0B43E940	28-Dec-05	362	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0B4401DB	28-Dec-05	362	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0B441A78	28-Dec-05	362	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0B443314	28-Dec-05	362	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:18:45	resume normal mode obs
0B468C40	30-Dec-05	364	0:00	DYN001	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	01:00:00	C1 one-day engineering
0B47DDC0	31-Dec-05	365	0:00	1						-50	1						-50	DYN007	1X1	ON	OFF	OPEN	OFF	-50	#REF!	C3 one-day engineering

Non-standard Operation	*Camera*	*Mode #*	*Frequency*	*Constraints*	*Primary Data Analyst*
Weekly Calibration	all	DYN000	every week	floating temps	J. Tappin
2-day Engineering Mode Observation	all	DYN001	every 2 months (first year)	no moon in FOV, floating temps	A. Buffington
High Flat Field Calibration	all	13	every 4 months	floating temps	A. Buffington

SMEI Camera Configuration Log: 2006

Notes:
Times are for beginning of pass in which event occurred; exact time of execution may be up to 15 mins later.
Blue font denotes planned activities.
Red font denotes problems & anomalies.
Green font denotes WindSat activity.
Magenta font denotes a Spacecraft anomaly.
Orange font denotes CCD annealing.

				Camera 1							Camera 2							Camera 3								
Rev # or UTC (hex)	Date	JD	Time (Zulu)	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Correction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Correction	Shutter Position	FF LED	De-Icer set pt.	Obs Duration (DD:HH:MM)	Comments
0B492F40	1-Jan-06	1	0:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	01:00:00	C2 one-day engineering
0B4A80C0	2-Jan-06	2	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:00:00	resume normal mode obs
0B4D23C0	4-Jan-06	4	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0B4D3C5B	4-Jan-06	4	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0B4D54F8	4-Jan-06	4	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0B4D6D94	4-Jan-06	4	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	07:00:00	resume normal mode obs
0B565E40	11-Jan-06	11	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0B5676DB	11-Jan-06	11	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0B568F78	11-Jan-06	11	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0B56A814	11-Jan-06	11	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	resume normal mode obs
0B5875CC	12-Jan-06	12	14:05					CLOSED		-50					CLOSED		-50					CLOSED		-50	00:00:16	PatchUpload (Config&PatchModes patches 1-8)
0B58798C	12-Jan-06	12	14:21					CLOSED		-50					CLOSED		-50					CLOSED		-50	00:00:01	
0B5879C8	12-Jan-06	12	14:22					CLOSED		-50					CLOSED		-50					CLOSED		-50	00:00:12	Patch Upload (patches 9-17)
0B587C97	12-Jan-06	12	14:34					CLOSED		-50					CLOSED		-50					CLOSED		-50	00:01:11	
0B588B20	12-Jan-06	12	15:36					CLOSED		-50					CLOSED		-50					CLOSED		-50	00:00:25	Patch Upload (patches 18-26)
0B588E68	12-Jan-06	12	15:50					CLOSED		-50					CLOSED		-50					CLOSED		-50	05:08:10	
0B588D3C	12-Jan-06	12	15:45					CLOSED		-50					CLOSED		-50					CLOSED		-50	00:00:16	Patch Upload (ConfigMode, patches 27-32)
0B5890FB	12-Jan-06	12	16:01	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	05:07:59	resume normal mode obs
0B5F98C0	18-Jan-06	18	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0B5FB15B	18-Jan-06	18	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0B5FC9F8	18-Jan-06	18	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0B5FE294	18-Jan-06	18	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	03:09:45	resume normal mode obs
0B646030	21-Jan-06	21	15:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:09:00	WindSat B-Dot Mode, Memogram 385
0B64DEC0	22-Jan-06	22	0:00	1						-50	1						-50	DYN013	1x1	ON	ON	OPEN	OFF	-50	01:19:13	DYN013 24hr Mask Test
0B673E7C	23-Jan-06	23	19:13	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:04:47	DHU Reset
0B68D340	25-Jan-06	25	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0B68EB0B	25-Jan-06	25	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0B690478	25-Jan-06	25	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0B691D14	25-Jan-06	25	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	100%	DYN002	2x2	ON	OFF	OPEN	OFF	100%	00:12:00	C2 & C3 HOT ANNEAL - 100%, 12hrs
0B69C5D4	25-Jan-06	25	17:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	100%	DYN002	2x2	ON	OFF	OPEN	OFF	100%	00:13:23	Anomaly, Memogram 392
0B6A8208	26-Jan-06	26	6:38	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:02:22	DHU Reset
0B6AA350	26-Jan-06	26	9:00	1						-50	1						-50	DYN013	1x1	ON	ON	OPEN	OFF	-50	00:08:47	DYN013 Single-Orbit MaskTest
0B6B1ED4	26-Jan-06	26	17:47	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:02:14	Anomaly, Memogram 387
0B6B3E3C	26-Jan-06	26	20:01	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:03:58	DHU Reset
0B6B7804	26-Jan-06	26	23:59	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:00:01	Anomaly, Memogram 388
0B6B7640	27-Jan-06	27	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN012	2x2	ON	ON	OPEN	OFF	-50	00:08:00	DYN012 24hr MaskTest-interrupted: bad ROI
0B6BE6C0	27-Jan-06	27	8:00																						00:13:24	Coriolis IMU Anomaly
0B6CA330	27-Jan-06	27	21:24	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:02:36	DHU Reset
0B6CC7C0	28-Jan-06	28	0:00	14	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	00:03:30	C1 anniversary obs
0B6CF8F8	28-Jan-06	28	3:30	10	1X1	OFF	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	
0B6D1194	28-Jan-06	28	5:15	DYN000	1X1	ON	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:07:00	
0B6D7403	28-Jan-06	28	12:15	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	
0B6D8CA0	28-Jan-06	28	14:00	15	1X1	ON	ON	FF	ON	-50	1						-50	1						-50	00:01:45	
0B6DA53C	28-Jan-06	28	15:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:08:15	resume normal mode obs
0B6E1940	29-Jan-06	29	0:00	1						-50	1						-50	14	1X1	OFF	OFF	OPEN	OFF	-50	00:03:30	C3 anniversary obs
0B6E4A78	29-Jan-06	29	3:30	1						-50	1						-50	10	1X1	OFF	OFF	FF	ON	-50	00:01:45	

0B6E6314	29-Jan-06	29	5:15	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:01:45	
0B6EC583	29-Jan-06	29	12:15	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:07:00	
0B6EDE20	29-Jan-06	29	14:00	1						-50	1						-50	15	1X1	ON	ON	FF	ON	-50	00:01:45	
0B6EF6BC	29-Jan-06	29	15:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:01:45	resume normal mode obs
0B6F6AC0	30-Jan-06	30	0:00	1						-50	14	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	00:03:30	C2 anniversary obs
0B6F9BF8	30-Jan-06	30	3:30	1						-50	10	1X1	OFF	OFF	FF	ON	-50	1						-50	00:01:45	
0B6FB494	30-Jan-06	30	5:15	1						-50	DYN000	1X1	ON	OFF	CLOSED	OFF	-50	1						-50	00:07:00	
0B701703	30-Jan-06	30	12:15	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	
0B702FA0	30-Jan-06	30	14:00	1						-50	15	1X1	ON	ON	FF	ON	-50	1						-50	00:01:45	
0B70483C	30-Jan-06	30	15:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:08:15	resume normal mode obs
0B720DC0	1-Feb-06	32	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0B72265B	1-Feb-06	32	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0B723EF8	1-Feb-06	32	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0B725794	1-Feb-06	32	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:18:45	resume normal mode obs
0B735F40	2-Feb-06	33	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	?	ON	OPEN	OFF	-50	01:00:00	DYN014 24hr MaskTest
0B74B0C0	3-Feb-06	34	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:00:00	resume normal mode obs
0B760240	4-Feb-06	35	0:00	14	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	00:03:30	C1 Anniversary obs
0B763378	4-Feb-06	35	3:30	10	1X1	OFF	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	
0B764C14	4-Feb-06	35	5:15	DYN000	1X1	ON	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:07:00	
0B76AE83	4-Feb-06	35	12:15	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	
0B76C720	4-Feb-06	35	14:00	15	1X1	ON	ON	FF	ON	-50	1						-50	1						-50	00:01:45	
0B76DFBC	4-Feb-06	35	15:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:08:15	resume normal mode obs
0B7753C0	5-Feb-06	36	0:00	1						-50	14	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	00:03:30	C2 Anniversary obs
0B7784F8	5-Feb-06	36	3:30	1						-50	10	1X1	OFF	OFF	FF	ON	-50	1						-50	00:01:45	
0B779D94	5-Feb-06	36	5:15	1						-50	DYN000	1X1	ON	OFF	CLOSED	OFF	-50	1						-50	00:07:00	
0B780003	5-Feb-06	36	12:15	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	
0B7818A0	5-Feb-06	36	14:00	1						-50	15	1X1	ON	ON	FF	ON	-50	1						-50	00:01:45	
0B78313C	5-Feb-06	36	15:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:21:57	resume normal mode obs
0B7965E8	6-Feb-06	37	13:42	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF		00:03:26	Anomaly BOOT Mode- Memogram 395
0B799630	6-Feb-06	37	17:08	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:06:52	DHU Reset
0B79F6C0	7-Feb-06	38	0:00	1						-50	1						-50	14	1X1	OFF	OFF	OPEN	OFF	-50	00:03:30	C3 Anniversary obs
0B7A27F8	7-Feb-06	38	3:30	1						-50	1						-50	10	1X1	OFF	OFF	FF	ON	-50	00:01:45	
0B7A4094	7-Feb-06	38	5:15	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:07:00	
0B7AA303	7-Feb-06	38	12:15	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
0B7ABBA0	7-Feb-06	38	14:00	1						-50	1						-50	15	1X1	ON	ON	FF	ON	-50	00:01:45	
0B7AD43C	7-Feb-06	38	15:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:08:15	resume normal mode obs
0B7B4840	8-Feb-06	39	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0B7B60DB	8-Feb-06	39	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0B7B7978	8-Feb-06	39	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0B7B9214	8-Feb-06	39	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	resume normal mode obs
0B8482C0	15-Feb-06	46	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0B849B5B	15-Feb-06	46	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0B84B3F8	15-Feb-06	46	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0B84CC94	15-Feb-06	46	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:06:54	resume normal mode obs
0B867F1C	16-Feb-06	47	12:09	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:05:26	Anomaly Failed VCID5 File- Memogram 398
0B86CB83	16-Feb-06	47	17:35	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	05:06:25	DHU Reset
0B8DBD40	22-Feb-06	53	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0B8DD5DB	22-Feb-06	53	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0B8DEE78	22-Feb-06	53	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0B8E0714	22-Feb-06	53	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:18:30	resume normal mode obs
0B8F0B3C	22-Feb-06	53	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	02:00:15	Start DYN014 C3 Normal Obs
0B91B1C0	25-Feb-06	56	0:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	02:00:00	C2 two-day engineering
0B9454C0	27-Feb-06	58	0:00	1						-50	1						-50	DYN007	1X1	ON	OFF	OPEN	OFF	-50	02:00:00	C3 two-day engineering
0B96F7C0	1-Mar-06	60	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0B97105B	1-Mar-06	60	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0B9728F8	1-Mar-06	60	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0B974194	1-Mar-06	60	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	00:18:45	resume normal mode obs
0B984940	2-Mar-06	61	0:00	DYN001	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	01:00:00	C1 one-day engineering
0B999AC0	3-Mar-06	62	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	01:07:00	resume normal mode obs
0B9B4EAF	4-Mar-06	63	7:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	03:14:45	Coriolis Stop Work: no weekly cal; data loss
0BA0129C	7-Mar-06	66	21:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	07:02:15	Resume Normal Ops- Memogram 400
0BA96CC0	15-Mar-06	74	0:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	weekly cal: C3-C2-C1

0BA9655B	15-Mar-06	74	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0BA990F8	15-Mar-06	74	3:30	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	
0BA9B694	15-Mar-06	74	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	resume normal mode obs
0BB2A740	22-Mar-06	81	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly + pre-anneal cals
0BB2BFDB	22-Mar-06	81	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0BB2D878	22-Mar-06	81	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0BB2F114	22-Mar-06	81	5:15	4	4X4	ON	ON	OPEN	OFF	100%	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	100%	00:18:45	C1 & C3 HOT ANNEAL - 100%, 12hrs
0BB3F8C0	23-Mar-06	82	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	C1 post-anneal cal
0BB4115B	23-Mar-06	82	1:45	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:07:00	C3 post-anneal cal
0BB473CC	23-Mar-06	82	8:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	05:15:15	resume normal mode obs
0BBBE1C0	29-Mar-06	88	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0BBBFA5B	29-Mar-06	88	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0BBC12F8	29-Mar-06	88	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0BBC2B94	29-Mar-06	88	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	02:03:20	resume normal mode obs
0BBEFD73	31-Mar-06	90	8:35	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	00:02:25	Anomaly following SAA passage
0BBF1F70	31-Mar-06	90	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	00:00:05	SMEI soft reset
0BBF209C	31-Mar-06	90	11:05	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	00:03:41	No telemetry- no updated C2 images
0BBF5468	31-Mar-06	90	14:46	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:08:23	Failed DHU reset- drop in A-side current
0BBFCA4C	31-Mar-06	90	23:09																						09:17:32	Failed SMEI-02- Power Off SMEI to think
0BCC9E5C	10-Apr-06	100	16:41																						00:01:49	Failed Redlined SMEI-01 to PWRON DHUA via PDUA- Memo407
0BCCB7E8	10-Apr-06	100	18:30																						00:23:34	Failed Continuation of Memo407- Memo408
0BCE0350	11-Apr-06	101	18:04																						07:21:50	Failed Redlined SMEI-01 to PWRON DHUA via PDUB- Memo410
0BD870D8	19-Apr-06	109	15:54																						07:08:33	Failed Redlined SMEI-01 to PWRON DHUA via 1553B; 1553 Wrap Test- Memo412
0BE22394	27-Apr-06	117	0:27	0							0							0							08:15:46	Successfully PWRON DHUB via SMEI-01B close C3 shutter- SafeMode- Memo414
0BED8D4C	5-May-06	125	16:13	0						30	0						30	0						30	00:03:49	Enabled power to C1, C2- Delcers to +30/+30/+30- Memo417
0BEDC2F8	5-May-06	125	20:02	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:01:59	Old Normal Obs (pre-V35)- Delcers to -50/-50/-50- Memo418
0BF081DB	7-May-06	127	22:01	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:17:52	Frame Increment Anomaly
0BF17D1C	8-May-06	128	15:53	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	03:21:50	DHU-B reset via SMEI-06B- Memo 423
0BF6A4A3	12-May-06	132	13:43	1						-50	1						-50	1						-50	00:00:44	Code Upload - ver 35 Memo 489
0BF6AB70	12-May-06	132	14:12	1						-50	1						-50	1						-50	00:00:15	Code Upload - ver 35 Memo 489 cont
0BF6AEF4	12-May-06	132	14:27	1	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:09:33	return to normal obs
0BF886C0	14-May-06	134	0:00	1						-50	1						-50	14	1X1	OFF	OFF	OPEN	OFF	-50	00:03:30	anniversary cals
0BF8B7F8	14-May-06	134	3:30	1						-50	1						-50	10	1X1	OFF	OFF	FF	ON	-50	00:01:45	anniversary cals
0BF8D094	14-May-06	134	5:15	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:07:00	anniversary cals
0BF93303	14-May-06	134	12:15	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	anniversary cals
0BF94BA0	14-May-06	134	14:00	1						-50	1						-50	15	1X1	ON	ON	FF	ON	-50	00:01:45	anniversary cals
0BF9643C	14-May-06	134	15:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:08:15	anniversary cals
0BF9D840	15-May-06	135	0:00	1						-50	14	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	00:03:30	anniversary cals
0BFA0978	15-May-06	135	3:30	1						-50	10	1X1	OFF	OFF	FF	ON	-50	1						-50	00:01:45	anniversary cals
0BFA2214	15-May-06	135	5:15	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:07:00	anniversary cals
0BFA8483	15-May-06	135	12:15	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	anniversary cals
0BFA9D20	15-May-06	135	14:00	1						-50	15	1X1	ON	ON	FF	ON	-50	1						-50	00:01:45	anniversary cals
0BFAB5BC	15-May-06	135	15:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:08:15	anniversary cals
0BFB29C0	16-May-06	136	0:00	14	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	00:00:00	anniversary cals
0BFB29C0	16-May-06	136	0:00	10	1X1	OFF	OFF	FF	ON	-50	1						-50	1						-50	00:00:00	anniversary cals
0BFB29C0	16-May-06	136	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:00:00	anniversary cals
0BFB29C0	16-May-06	136	0:00	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:00:00	anniversary cals
0BFB29C0	16-May-06	136	0:00	15	1X1	ON	ON	FF	ON	-50	1						-50	1						-50	00:00:00	anniversary cals
0BFB29C0	16-May-06	136	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:00:00	
0BFC7B40	17-May-06	137	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0BFC93DB	17-May-06	137	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0BFCAC78	17-May-06	137	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0BFCC514	17-May-06	137	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	05:18:45	resume normal mode obs
0C046440	23-May-06	143	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:22:25	Anomaly: Housekeeping Errors
0C059F7C	23-May-06	143	22:25	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:01:20	DHU Reset via SMEI-06B Memo 427
0C05B23C	23-May-06	143	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:00:15	Reinstated Auto Resets Memo 426
0C070740	25-May-06	145	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly & pre-anneal cal
0C071FDC	25-May-06	145	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	

0C073878	25-May-06	145	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0C075114	25-May-06	145	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	100%	00:18:45	C3 HOT ANNEAL - 100%, norm TC (12 hrs)
0C0858C0	26-May-06	146	0:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:07:00	C3 post-anneal cal
0C08BB30	26-May-06	146	7:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:17:00	resume normal mode obs
0C09AA40	27-May-06	147	0:00	1						-50	1						-50	DYN007	1X1	ON	OFF	OPEN	OFF	-50	01:00:00	C3 one-day engineering
0C0AFBC0	28-May-06	148	0:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	01:00:00	C2 one-day engineering
0C0C4D40	29-May-06	149	0:00	DYN001	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	01:00:00	C1 one-day engineering
0C0D9EC0	30-May-06	150	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	00:11:00	resume normal mode obs- *C3 in wrong DYNCONF (tasking file error)*
0C0E3970	30-May-06	150	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:13:00	resume normal mode obs- DYN010 auto-reset
0C0EF040	31-May-06	151	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0C0F08DC	31-May-06	151	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0C0F2178	31-May-06	151	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0C0F3A14	31-May-06	151	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	00:01:47	resume normal mode obs- *DYN014 tasking error Memo 428*
0C0F5328	31-May-06	151	7:02	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:00:45	resume normal mode obs- DYN010 Memo___
0C0F5DB4	31-May-06	151	7:47	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:07:09	Anomaly- Frames Slow to Increment
0C1113C0	1-Jun-06	152	14:56	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:16:44	DHU Reset via SMEI-06B Memo 429
0C14A210	4-Jun-06	155	7:40	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:11:13	Anomaly- Invalid Images
0C153FCC	4-Jun-06	155	18:53	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:05:07	DHU Reset via SMEI-06B Memo 430
0C182AC0	7-Jun-06	158	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0C18435C	7-Jun-06	158	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0C185BF8	7-Jun-06	158	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0C187494	7-Jun-06	158	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:09:57	resume normal mode obs
0C190060	7-Jun-06	158	15:12	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:18:26	Data Redump (Indicies 5 & 6) Due to Poor SMEI Data Memo 434
0C1CA6B8	10-Jun-06	161	9:38	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:06:09	Anomaly- All Cameras Off
0C1CFD34	10-Jun-06	161	15:47	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	03:08:13	DHU Reset via SMEI-06B Memo 435
0C216540	14-Jun-06	165	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0C217DDC	14-Jun-06	165	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:12:15	
0C222A20	14-Jun-06	165	14:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0C2242BC	14-Jun-06	165	15:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:18:51	resume normal mode obs
0C249D50	16-Jun-06	167	10:36	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:13:21	Anomaly-VCID5 Errors
0C25590C	16-Jun-06	167	23:57	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	04:00:03	DHU Reset via SMEI-06B Memo 438
0C2A9FC0	21-Jun-06	172	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0C2AB85C	21-Jun-06	172	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0C2AD0F8	21-Jun-06	172	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0C2AE994	21-Jun-06	172	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	05:06:31	resume normal mode obs
0C31DCB8	26-Jun-06	177	11:46	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:02:54	Anomaly: Boot Mode
0C320580	26-Jun-06	177	14:40	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:09:20	DHU Reset via SMEI-06B Memo 439
0C33DA40	28-Jun-06	179	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0C33F2DC	28-Jun-06	179	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0C340B78	28-Jun-06	179	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0C342414	28-Jun-06	179	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:00:03	resume normal mode obs
0C3424C8	28-Jun-06	179	5:18	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:11:54	Anomaly- Stuck in CONFIG Mode
0C34CC20	28-Jun-06	179	17:12	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:06:48	DHU Reset via SMEI-06B Memo 440
0C3D14C0	5-Jul-06	186	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0C3D2D5C	5-Jul-06	186	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0C3D45F8	5-Jul-06	186	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0C3D5E94	5-Jul-06	186	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:00:45	resume normal mode obs
0C3D6920	5-Jul-06	186	6:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:00	OOLs updated Memo 441
0C464F40	12-Jul-06	193	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0C4667DC	12-Jul-06	193	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0C466078	12-Jul-06	193	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0C469914	12-Jul-06	193	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	04:20:39	resume normal mode obs
0C4D0178	17-Jul-06	198	1:54	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:02:36	Anomaly- Invalid Telemetry
0C4D2608	17-Jul-06	198	4:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:19:30	DHU Reset via SMEI-06B Memo ___
0C4F89C0	19-Jul-06	200	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0C4FA25C	19-Jul-06	200	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0C4FBAF8	19-Jul-06	200	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0C4FD394	19-Jul-06	200	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	03:18:45	resume normal mode obs
0C54CFC0	23-Jul-06	204	0:00	DYN001	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	01:00:00	C1 one-day engineering
0C562140	24-Jul-06	205	0:00	1						-50	1						-50	DYN007	1X1	ON	OFF	OPEN	OFF	-50	01:00:00	C3 one-day engineering

0C5772C0	25-Jul-06	206	0:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	01:00:00	C2 one-day engineering
0C58C440	26-Jul-06	207	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0C58DCDC	26-Jul-06	207	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0C58F578	26-Jul-06	207	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0C590E14	26-Jul-06	207	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:02:17	resume normal mode obs
0C58D130	28-Jul-06	209	7:32																						00:12:37	Coriolis Anomaly: IMU Upset
0C5C829C	28-Jul-06	209	20:09	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:01:41	Coriolis Ref Point
0C5C9A48	28-Jul-06	209	21:50	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:11:58	SSR indices re-synched
0C5FE590	31-Jul-06	212	9:48																						00:07:48	Coriolis Anomaly: IMU Upset
0C605340	31-Jul-06	212	17:36	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:01:48	Coriolis Ref Point
0C61BE10	1-Aug-06	213	19:24	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:04:36	SSR indices re-synched
0C61FEC0	2-Aug-06	214	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0C62175C	2-Aug-06	214	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0C622FF8	2-Aug-06	214	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0C624894	2-Aug-06	214	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	100%	00:18:45	C3 HOT ANNEAL - 100%, norm TC (12 hrs)
0C635040	3-Aug-06	215	0:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:07:00	C3 post-anneal cal
0C63B2B0	3-Aug-06	215	7:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:23:58	resume normal mode obs
0C67A6B8	6-Aug-06	218	6:58	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:10:34	Anomaly BOOT Mode
0C683B50	6-Aug-06	218	17:32	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:22:39	DHU Reset via SMEI-06B Memo 454
0C6979D4	7-Aug-06	219	16:11	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:01:23	Anomaly CONFIG Mode
0C698D48	7-Aug-06	219	17:34	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:06:26	DHU Reset via SMEI-06B Memo 455
0C6B3940	9-Aug-06	221	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0C6B51DC	9-Aug-06	221	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0C8B6A78	9-Aug-06	221	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0C8B8314	9-Aug-06	221	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:02:11	resume normal mode obs
0C6BA1C8	9-Aug-06	221	7:26																						00:09:11	Coriolis Anomaly: IMU Upset
0C6C22EC	9-Aug-06	221	16:37	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:07:23	Coriolis Ref Point
0C7473C0	16-Aug-06	228	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0C748C5C	16-Aug-06	228	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0C74A4F8	16-Aug-06	228	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0C74BD94	16-Aug-06	228	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:07:45	resume normal mode obs
0C7D1390	22-Aug-06	234	13:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:04:52	Anomaly: Boot Mode
0C7D5800	22-Aug-06	234	17:52	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:06:08	DHU Reset via SMEI-06B Memo 463
0C7DAE40	23-Aug-06	235	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0C7DC6DC	23-Aug-06	235	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0C7DDF78	23-Aug-06	235	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0C7DF814	23-Aug-06	235	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:04:15	resume normal mode obs
0C7F8558	24-Aug-06	236	9:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:07:47	Anomaly: No valid telemetry
0C7FF2CC	24-Aug-06	236	17:17	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:20:25	DHU Reset via SMEI-06B Memo 464
0C8111E8	25-Aug-06	237	13:42	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:03:08	Anomaly: Poor SMEI Data
0C813DF8	25-Aug-06	237	16:50	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	04:07:10	DHU Reset via SMEI-06B Memo 465
0C86E8C0	30-Aug-06	242	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0C87015C	30-Aug-06	242	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0C8719F8	30-Aug-06	242	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0C873294	30-Aug-06	242	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:14:23	resume normal mode obs
0C8A9FD8	1-Sep-06	244	19:38																						00:05:39	Coriolis Anomaly: IMU Upset
0C8AEF4C	2-Sep-06	245	1:17	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:09:43	Coriolis Ref Point
0C8E1AF0	4-Sep-06	247	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:06:25	Anomaly BOOT Mode
0C8E752C	4-Sep-06	247	17:25	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:06:35	DHU Reset via SMEI-06B Memo 472
0C902340	6-Sep-06	249	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0C903BDC	6-Sep-06	249	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0C905478	6-Sep-06	249	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0C906D14	6-Sep-06	249	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:14:45	resume normal mode obs
0C992580	12-Sep-06	255	20:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:04:00	Anomaly: invalid S-band telemetry
0C995DC0	13-Sep-06	256	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0C99765C	13-Sep-06	256	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:00:57	
0C9983B8	13-Sep-06	256	2:42	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:00:48	DHU reset via SMEI-06B Memo 474
0C998EF8	13-Sep-06	256	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	weekly cal (con'd)
0C99A794	13-Sep-06	256	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:08:07	
0C9A19B8	13-Sep-06	256	13:22	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:01:40	Mask Upload attempt 1 - unsuccessful
0C9A3128	13-Sep-06	256	15:02	0						-50	0						-50	0						-50	00:03:06	DHU reset, mask upload atmpt 2 - failed
0C9A5CC0	13-Sep-06	256	18:08	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:20:36	resume normal mode obs

0C9B7E70	14-Sep-06	257	14:44	1						-50	1						-50	1						-50	00:01:17	Enable patch unpack cmd, part 1 Memo 473
0C9B907C	14-Sep-06	257	16:01	1						-50	1						-50	1						-50	00:04:07	Enable patch unpack cmd, part 2
0C9BCA60	14-Sep-06	257	20:08	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:19:52	Mask upload COMPLETE!
0C9CE1C0	15-Sep-06	258	16:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:07:45	Anomaly: synch errors
0C9EA03C	16-Sep-06	259	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	01:23:45	DYN014 implemented in auto-resets
0CA13FB8	18-Sep-06	261	23:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	01:00:30	DHU reset via new: SMEI-07B Memo 480
0CA29640	20-Sep-06	263	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0CA2B0DC	20-Sep-06	263	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0CA2C978	20-Sep-06	263	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0CA2E214	20-Sep-06	263	5:15	1						-50	1						-50	DYN013	1x1	ON	ON	OPEN	OFF	-50	00:00:10	collect mask data
0CA2E46C	20-Sep-06	263	5:25	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:18:35	resume normal mode obs
0CA3E9C0	21-Sep-06	264	0:00	DYN001	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	01:00:00	C1 one-day engineering
0CA53B40	22-Sep-06	265	0:00	1						-50	1						-50	DYN007	1X1	ON	OFF	OPEN	OFF	-50	01:00:00	C3 one-day engineering
0CA68CC0	23-Sep-06	266	0:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	01:00:00	C2 one-day engineering
0CA7DE40	24-Sep-06	267	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	03:00:00	resume normal mode obs
0CABD2C0	27-Sep-06	270	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0CABEB5C	27-Sep-06	270	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0CAC03F8	27-Sep-06	270	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0CAC1C94	27-Sep-06	270	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	04:09:46	resume normal mode obs
0CB1EBEC	1-Oct-06	274	15:01	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:07:56	Anomaly: BOOT Mode
0CB25B7C	1-Oct-06	274	22:57	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	02:01:03	DHU reset via SMEI-07B Memo 483
0CB50D40	4-Oct-06	277	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly & pre-anneal cal
0CB525DC	4-Oct-06	277	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0CB53E78	4-Oct-06	277	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0CB55714	4-Oct-06	277	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	100%	00:12:00	C3 HOT ANNEAL - 100%, norm TC (12 hrs)
0CB5FFD4	4-Oct-06	277	17:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:06:45	end of anneal
0CB65EC0	5-Oct-06	278	0:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:07:00	C3 post-anneal cal
0CB6C130	5-Oct-06	278	7:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	02:09:00	resume normal mode obs
0CB9E2C0	7-Oct-06	280	16:00																						01:03:37	Coriolis Anomaly: BAPTA slip ring debris
0CBB671C	8-Oct-06	281	19:37	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	02:04:23	Coriolis Ref Point
0CBE47C0	11-Oct-06	284	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0CBE605C	11-Oct-06	284	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0CBE78F8	11-Oct-06	284	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0CBE9194	11-Oct-06	284	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	resume normal mode obs
0CC78240	18-Oct-06	291	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0CC79ADC	18-Oct-06	291	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0CC7B378	18-Oct-06	291	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0CC7CC14	18-Oct-06	291	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	resume normal mode obs
0CD0BCC0	25-Oct-06	298	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0CD0D55C	25-Oct-06	298	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0CD0EDF8	25-Oct-06	298	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0CD10694	25-Oct-06	298	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	06:15:15	resume normal mode obs
0CD9C608	31-Oct-06	304	20:30																						00:03:30	Anomaly: Abnormal BOS Activity
0CD9F740	1-Nov-06	305	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal- interrupted
0CDA0FDC	1-Nov-06	305	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0CDA2878	1-Nov-06	305	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0CDA4114	1-Nov-06	305	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	00:10:18	resume normal mode obs
0CDAD1EC	1-Nov-06	305	15:33	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	01:08:27	DHU reset via SMEI-07B Memo 488
0CDC9A40	3-Nov-06	307	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal repeated
0CDCB2DC	3-Nov-06	307	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0CDCCB78	3-Nov-06	307	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0CDCE414	3-Nov-06	307	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	04:18:45	resume normal mode obs
0CE331C0	8-Nov-06	312	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0CE34A5C	8-Nov-06	312	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0CE362F8	8-Nov-06	312	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0CE37B94	8-Nov-06	312	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	resume normal mode obs
0CEC6C40	15-Nov-06	319	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0CEC84DC	15-Nov-06	319	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0CEC9D78	15-Nov-06	319	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0CECB614	15-Nov-06	319	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	03:18:45	resume normal mode obs
0CF1B240	19-Nov-06	323	0:00	DYN001	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	01:00:00	C1 one-day engineering
0CF303C0	20-Nov-06	324	0:00	1						-50	1						-50	DYN007	1X1	ON	OFF	OPEN	OFF	-50	01:00:00	C3 one-day engineering

0CF45540	21-Nov-06	325	0:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	01:00:00	C2 one-day engineering
0CF5A6C0	22-Nov-06	326	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly/post cal
0CF5BF5C	22-Nov-06	326	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0CF5D7F8	22-Nov-06	326	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0CF5F094	22-Nov-06	326	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	resume normal mode obs
0CFEE140	29-Nov-06	333	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly /preanneal cal
0CFEF9DC	29-Nov-06	333	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0CFF1278	29-Nov-06	333	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0CFF2B14	29-Nov-06	333	5:15	4	4X4	ON	ON	OPEN	OFF	100%	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	100%	00:18:45	C2C3 HOT ANNEAL - 100%, norm TC (12 hrs)
0D0032C0	30-Nov-06	334	0:00	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	post anneal cal (C2 not cooled enough)
0D0048SC	30-Nov-06	334	1:45	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:05:15	
0D009530	30-Nov-06	334	7:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	03:16:45	resume normal mode obs
0D05753C	3-Dec-06	337	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:14:31	Anomaly: BOOT Mode
0D064160	4-Dec-06	338	14:16	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	01:09:44	DHU reset via SMEI-07B Memo 490
0D081BC0	6-Dec-06	340	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0D08345C	6-Dec-06	340	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D084CF8	6-Dec-06	340	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D086594	6-Dec-06	340	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	02:09:47	resume normal mode obs
0D0B9228	8-Dec-06	342	15:02					CLOSED		-50					CLOSED		-50					CLOSED		-50	00:01:26	Patch Upload (Config&PatchModes: patches 1-9) *Left in Patch Mode
0D0BA650	8-Dec-06	342	16:28					CLOSED		-50					CLOSED		-50					CLOSED		-50	00:00:09	Patch Upload (Patch Mode: patches 10-19)
0D0BA86C	8-Dec-06	342	16:37	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	00:01:36	resume normal mode obs
0D0BBEEC	8-Dec-06	342	18:13					CLOSED		-50					CLOSED		-50					CLOSED		-50	00:00:06	Patch Upload (Config&PatchModes: patches 20-26)
0D0BC054	8-Dec-06	342	18:19	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	00:03:06	resume normal mode obs
0D0BEBEC	8-Dec-06	342	21:25					CLOSED		-50					CLOSED		-50					CLOSED		-50	00:02:20	Patch Upload (Config&PatchModes: patches 26-32) *Left in Patch due to short contact
0D0C0CBC	8-Dec-06	342	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	01:00:15	resume normal mode obs via auto reset
0D0D61C0	10-Dec-06	344	0:00	1						-50	1						-50	DYN013	1x1	ON	ON	OPEN	OFF	-50	00:00:10	DYN013 10 Minute Mask Test
0D0D6418	10-Dec-06	344	0:10	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	02:23:50	resume normal mode obs
0D115640	13-Dec-06	347	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0D116EDC	13-Dec-06	347	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D118778	13-Dec-06	347	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D11A014	13-Dec-06	347	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	resume normal mode obs
0D1A90C0	20-Dec-06	354	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0D1AA95C	20-Dec-06	354	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D1AC1F8	20-Dec-06	354	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D1ADA94	20-Dec-06	354	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	03:19:57	resume normal mode obs
0D1FE7A0	24-Dec-06	358	1:12	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	01:15:08	Anomaly: BOOT Mode
0D220DF0	25-Dec-06	359	16:20	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	01:07:40	DHU reset via SMEI-07B Memo 493
0D23CB40	27-Dec-06	361	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0D23E3DC	27-Dec-06	361	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D23FC78	27-Dec-06	361	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D241514	27-Dec-06	361	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	-50	#REF!	resume normal mode obs

Non-standard Operation	*Camera*	*Mode #*	*Frequency*	*Constraints*	*Primary Data Analyst*
Weekly Calibration	all	DYN000	every week	floating temps	J. Tappin
2-day Engineering Mode Observation	all	DYN001	every 2 months (first year)	no moon in FOV, floating temps	A. Buffington
High Flat Field Calibration	all	13	every 4 months	floating temps	A. Buffington

SMEI Camera Configuration Log: 2007

Notes:
Times are for beginning of pass in which event occurred; exact time of execution may be up to 15 mins later.
Blue font denotes planned activities.
Red font denotes problems & anomalies.
Green font denotes WindSat activity.
Magenta font denotes a Spacecraft anomaly.
Orange font denotes CCD annealing.

				Camera 1							Camera 2							Camera 3								
Rev # or UTC (hex)	Date	JD	Time (Zulu)	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Obs Duration (DD:HH:MM)	Comments
0D2D05C0	3-Jan-07	3	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0D2D1E5C	3-Jan-07	3	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D2D36F8	3-Jan-07	3	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D2D4F94	3-Jan-07	3	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	06:18:45	resume normal mode obs
0D364040	10-Jan-07	10	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0D3658DC	10-Jan-07	10	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D367178	10-Jan-07	10	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D368A14	10-Jan-07	10	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	02:03:45	resume normal mode obs
0D3961D0	12-Jan-07	12	9:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:08:46	Anomaly: Frame Incrementing Errors
0D39DD18	12-Jan-07	12	17:46	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	04:06:14	DHU reset via SMEI-07B Memo 494
0D3F7AC0	17-Jan-07	17	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0D3F935C	17-Jan-07	17	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D3FABF8	17-Jan-07	17	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D3FC494	17-Jan-07	17	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:18:45	resume normal mode obs
0D40CC40	18-Jan-07	18	0:00	14	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	00:03:30	C1 anniversary obs
0D40FD78	18-Jan-07	18	3:30	10	1X1	OFF	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	
0D411614	18-Jan-07	18	5:15	DYN000	1X1	ON	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:07:00	
0D417884	18-Jan-07	18	12:15	13	1X1	ON	OFF	FF	ON	-50	1						-50	1						-50	00:01:45	
0D419120	18-Jan-07	18	14:00	15	1X1	ON	ON	FF	ON	-50	1						-50	1						-50	00:01:45	
0D41A9BC	18-Jan-07	18	15:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:08:15	resume normal mode obs
0D421DC0	19-Jan-07	19	0:00	1						-50	1						-50	14	1X1	OFF	OFF	OPEN	OFF	-50	00:03:30	C3 anniversary obs
0D424EF8	19-Jan-07	19	3:30	1						-50	1						-50	10	1X1	OFF	OFF	FF	ON	-50	00:01:45	
0D426794	19-Jan-07	19	5:15	1						-50	1						-50	DYN006	1X1	OFF	OFF	CLOSED	OFF	-50	00:07:00	
0D42CA04	19-Jan-07	19	12:15	1						-50	1						-50	13	1X1	ON	OFF	FF	ON	-50	00:01:45	
0D42E2A0	19-Jan-07	19	14:00	1						-50	1						-50	15	1X1	ON	ON	FF	ON	-50	00:01:45	
0D42FB3C	19-Jan-07	19	15:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:08:15	resume normal mode obs
0D436F40	20-Jan-07	20	0:00	1						-50	14	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	00:03:30	C2 anniversary obs
0D43A078	20-Jan-07	20	3:30	1						-50	10	1X1	OFF	OFF	FF	ON	-50	1						-50	00:01:45	
0D43B914	20-Jan-07	20	5:15	1						-50	DYN000	1X1	ON	OFF	CLOSED	OFF	-50	1						-50	00:07:00	
0D441B84	20-Jan-07	20	12:15	1						-50	13	1X1	ON	OFF	FF	ON	-50	1						-50	00:01:45	
0D443420	20-Jan-07	20	14:00	1						-50	15	1X1	ON	ON	FF	ON	-50	1						-50	00:01:45	
0D444CBC	20-Jan-07	20	15:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	03:08:15	resume normal mode obs
0D48B540	24-Jan-07	24	0:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly + pre-anneal cals
0D48CDDC	24-Jan-07	24	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D48E678	24-Jan-07	24	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D48FF14	24-Jan-07	24	5:15	4	4X4	ON	ON	OPEN	OFF	100%	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:00:15	C1 & C3 HOT ANNEAL - 100%, 12hrs
0D490298	24-Jan-07	24	5:30	4	4X4	ON	ON	OPEN	OFF	100%	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	OFF	OPEN	OFF	100%	00:14:20	Anomaly: Frame Errors; anneal continued
0D49CC28	24-Jan-07	24	19:50	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:04:10	DHU reset via SMEI-07B Memo 496
0D4A06C0	25-Jan-07	25	0:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:07:00	C3 post-anneal cal
0D4A6930	25-Jan-07	25	7:00	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	C1 post-anneal cal
0D4A81CC	25-Jan-07	25	8:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	05:15:15	resume normal mode obs
0D51EFC0	31-Jan-07	31	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0D52085C	31-Jan-07	31	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D5220F8	31-Jan-07	31	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D523994	31-Jan-07	31	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	06:18:45	resume normal mode obs
0D5B2A40	7-Feb-07	38	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0D5B42DC	7-Feb-07	38	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D5B6B78	7-Feb-07	38	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D5B7414	7-Feb-07	38	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	06:18:45	resume normal mode obs
0D6464C0	14-Feb-07	45	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0D6470SC	14-Feb-07	45	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D6495F8	14-Feb-07	45	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D64AE94	14-Feb-07	45	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	06:18:45	resume normal mode obs
0D6C9F40	21-Feb-07	52	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal

Prepared by Jessica Hewitt and Paul Holladay

				Camera 1							Camera 2							Camera 3								
Rev # or UTC (hex)	Date	JD	Time (Zulu)	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Obs Duration (DD:HH:MM)	Comments
0D6DB7DC	21-Feb-07	52	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D6DD078	21-Feb-07	52	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D6DE914	21-Feb-07	52	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	04:03:12	resume normal mode obs
0D736C14	25-Feb-07	56	8:27	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	01:11:46	Anomaly: Dropped Frames
0D75530C	26-Feb-07	57	20:13	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	01:03:47	DHU reset via SMEI-07B Memo 497
0D76D9C0	28-Feb-07	59	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0D76F25C	28-Feb-07	59	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D770AF8	28-Feb-07	59	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D772394	28-Feb-07	59	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	06:18:45	resume normal mode obs
0D801440	7-Mar-07	66	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0D802CDC	7-Mar-07	66	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D804578	7-Mar-07	66	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D805E14	7-Mar-07	66	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	#REF!	resume normal mode obs
0D8897F0	13-Mar-07	72	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:04:27	Anomaly: Command Reject
0D88D684	13-Mar-07	72	15:27	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:08:33	DHU reset via SMEI-07B Memo 498
0D894EC0	14-Mar-07	73	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0D89675C	14-Mar-07	73	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D897FF8	14-Mar-07	73	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D899894	14-Mar-07	73	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	03:18:45	resume normal mode obs
0D8E94C0	18-Mar-07	77	0:00	DYN001	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	01:00:00	C1 one-day engineering (23 minute data gap)
0D8FEE40	19-Mar-07	78	0:00	1						-50	1						-50	DYN007	1X1	ON	OFF	OPEN	OFF	-50	01:00:00	C3 one-day engineering
0D9137C0	20-Mar-07	79	0:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	01:00:00	C2 one-day engineering
0D928940	21-Mar-07	80	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	pre-anneal cal
0D92A1DC	21-Mar-07	80	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D92BA78	21-Mar-07	80	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D92D314	21-Mar-07	80	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:18:38	C3 HOT ANNEAL - 100%, 12hrs
0D93D81C	21-Mar-07	80	23:53	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:17:47	Anomaly: Dropped Frames
0D94C030	22-Mar-07	81	17:40	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	01:06:20	DHU reset via SMEI-07B Memo 499
0D967DC0	24-Mar-07	83	0:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:07:00	C3 post-anneal cal
0D96E030	24-Mar-07	83	7:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	03:17:00	resume normal mode obs
0D98C3C0	28-Mar-07	87	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0D9BDC5C	28-Mar-07	87	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0D9BF4F8	28-Mar-07	87	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0D9C0D94	28-Mar-07	87	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	03:08:05	resume normal mode obs
0DA073C0	31-Mar-07	90	13:20	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:02:06	Anomaly: SMEI Systems Off
0DA09148	31-Mar-07	90	15:26	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	02:00:16	DHU reset via SMEI-07B Memo 502
0DA33B98	2-Apr-07	92	15:42	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:23:27	Coriolis Anomaly: IMU Upset
0DA481CC	3-Apr-07	93	15:09	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:08:51	Coriolis Ref Point
0DA4FE40	4-Apr-07	94	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0DA516DC	4-Apr-07	94	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0DA52F78	4-Apr-07	94	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0DA54814	4-Apr-07	94	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	05:07:29	resume normal mode obs
0DAC48D0	9-Apr-07	99	12:44					CLOSED		-50					CLOSED		-50					CLOSED		-50	00:01:01	Patch Upload (Config&PatchModes: patches 1-7) *Left in Patch Mode
0DAC571C	9-Apr-07	99	13:45					CLOSED		-50					CLOSED		-50					CLOSED		-50	00:02:10	Patch Upload (Patch Mode: patches 8-20) *Left in Patch Mode
0DAC7594	9-Apr-07	99	15:55					CLOSED		-50					CLOSED		-50					CLOSED		-50	00:00:06	Patch Upload (PatchMode: patches 21-32)
0DAC76FC	9-Apr-07	99	16:01	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:00:00	resume normal mode obs
0DAC76FC	9-Apr-07	99	16:01	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:05:20	(False) Anomaly: Small Files
0DACC1FC	9-Apr-07	99	21:21	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	01:02:39	DHU reset via SMEI-07B Memo 510
0DAE38C0	11-Apr-07	101	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0DAE515C	11-Apr-07	101	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0DAE69F8	11-Apr-07	101	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0DAE8294	11-Apr-07	101	5:15	1						-50	1						-50	DYN013	1x1	ON	ON	OPEN	OFF	-50	00:00:10	DYN013 10 Minute Mask Test
0DAE84EC	11-Apr-07	101	5:25	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	04:19:49	resume normal mode obs
0DB4E198	16-Apr-07	106	1:14	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	01:12:34	Anomaly: SMEI Systems Off
0DB6E3D0	17-Apr-07	107	13:48	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:10:12	DHU reset via SMEI-07B Memo 511
0DB77340	18-Apr-07	108	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0DB786DC	18-Apr-07	108	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0DB7A478	18-Apr-07	108	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0DB7BD14	18-Apr-07	108	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:18:45	resume normal mode obs
0DB8C4C0	19-Apr-07	109	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:20:05	Anomaly: Data Loss
0DB9DF2C	19-Apr-07	109	20:05	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	05:03:55	DHU reset via SMEI-07B Memo 512
0DC0ADC0	25-Apr-07	115	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal

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				Camera 1							Camera 2							Camera 3								
Rev # or UTC (hex)	Date	JD	Time (Zulu)	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Obs Duration (DD:HH:MM)	Comments
0DC0C65C	25-Apr-07	115	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0DC0DEF8	25-Apr-07	115	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0DC0F794	25-Apr-07	115	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	07:18:45	resume normal mode obs
0DCB39C0	3-May-07	123	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0DCB525C	3-May-07	123	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0DCB6AF8	3-May-07	123	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0DCB8394	3-May-07	123	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	13:00:00	resume normal mode obs
0DD322C0	9-May-07	129	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	pre-anneal cal
0DD3365C	9-May-07	129	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0DD353F8	9-May-07	129	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0DD38C94	9-May-07	129	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:18:45	C3 HOT ANNEAL - 100%, 12hrs
0DD47440	10-May-07	130	0:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:07:00	C3 post-anneal cal
0DD4D6B0	10-May-07	130	7:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	05:17:00	resume normal mode obs
0DD70930	11-May-07	131	23:00	0						-50	0						-50	0						-50	04:02:45	Anomaly: Boot mode
0DD79F30	12-May-07	132	9:40	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	03:17:50	Reset via SMEI-07B; Memo 513
0DD7B1F0	12-May-07	132	11:00	0						-50	0						-50	0						-50	03:18:15	Anomaly: Boot mode again
0DD7CD5C	12-May-07	132	12:57	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	04:16:18	Reset via SMEI-07B; Memo 514
0DDC5D40	16-May-07	136	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0DDC75DC	16-May-07	136	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0DDC8E78	16-May-07	136	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0DDCA714	16-May-07	136	5:15	1						-50	1						-50	DYN007	1X1	ON	OFF	OPEN	OFF	-50	01:00:00	C3 one-day engineering
0DDDF894	17-May-07	137	5:15	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	01:00:00	C2 one-day engineering
0DDF4A14	18-May-07	138	5:15	DYN001	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	05:00:00	C1 one-day engineering
0DE09B94	19-May-07	139	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	03:18:45	resume normal mode obs (C3 in DYN010)
0DE597C0	23-May-07	143	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0DE5805C	23-May-07	143	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0DE5C8F8	23-May-07	143	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0DE5E194	23-May-07	143	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	resume normal mode obs
0DEED240	30-May-07	150	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0DEEEADC	30-May-07	150	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0DEF0378	30-May-07	150	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0DEF1C14	30-May-07	150	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:10:15	resume normal mode obs
0DF0FDB8	31-May-07	151	15:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:04:30	ACS anomaly; Coriolis to SAFE mode; SMEI still ON
0DF13D00	31-May-07	151	20:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	05:04:00	Vehicle back to Reference Pt
0DF80CC0	6-Jun-07	157	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0DF8255C	6-Jun-07	157	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0DF83DF8	6-Jun-07	157	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0DF85694	6-Jun-07	157	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:03:40	resume normal mode obs
0DFB2D24	8-Jun-07	159	8:55	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:00:33	**Coriolis 1553 anomaly**--no telemetry from Star Trackers, WindSat, **or SMEI**
0DFB34E0	8-Jun-07	159	9:28	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:10:38	Vehicle to Sun Pt mode due to no data from Star Tracker
0DFBCA68	8-Jun-07	159	20:06	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	03:19:54	Cmd'd SMEI & WindSat to use 1553 Bus-B; no change
0E00D6C0	12-Jun-07	163	16:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:02:34	auto-resets discontinued
0E00FAD8	12-Jun-07	163	18:34	0							0							0							01:20:47	**SMEI anomaly**, cameras pwr'd OFF (discernable in PLB_B_CUR)
0E03709C	14-Jun-07	165	15:21	0							0							0							05:03:26	partial DHU reboot via bilevel cmd; DHU returned to "known state".
0E0A3864	19-Jun-07	170	18:47	0							0							0							00:01:27	1750 reset procedure, partial DHU reboot, enabled SMEI RT on the 1553 Bus A--**>SMEI telemetry!!** They got 1553 errors when they enabled the ST and WindSat, so they disabled them.
0E0A4CC8	19-Jun-07	170	20:14	0							0							0							00:00:11	Switched to 1553 Bus B: SMEI worked, ST worked, rec'g only partial telem from WindSat.
0E0A4F5C	19-Jun-07	170	20:25	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:03:20	SMEI returned to normal obs mode, veh still in Sun Pt. No sky maps due to lack of quaternion data.
0E0D213C	21-Jun-07	172	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:19:36	Auto-resets resumed
0E0E34DC	22-Jun-07	173	19:21	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:03:22	cmd'd SAFEHOLD to pwr-down WindSat; uncontrolled spin-down, Coriolis to b-dot; WindSat pwr'd ON, telemetry restored! SMEI remained pwr'd ON thru this.
0E0E6434	22-Jun-07	173	22:43	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	03:10:02	Vehicle to Sun Pt
0E12E5CC	26-Jun-07	177	8:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:15:15	**ACS anomaly**--IMU upset. WindSat pwr'd OFF.
0E13BC40	27-Jun-07	178	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	pre-anneal cal
0E13D4DC	27-Jun-07	178	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0E13ED78	27-Jun-07	178	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0E140614	27-Jun-07	178	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	100%	DYN010	2x2	ON	OFF	OPEN	OFF	100%	00:18:45	C2&C3 HOT ANNEAL - 100%, 12hrs

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				Camera 1							Camera 2							Camera 3								
Rev # or UTC (hex)	Date	JD	Time (Zulu)	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Obs Duration (DD:HH:MM)	Comments
0E150DC0	28-Jun-07	179	0:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:05:15	C3 post-anneal cal
0E155794	28-Jun-07	179	5:15	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	C2 post-anneal cal
0E157030	28-Jun-07	179	7:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:06:46	resume normal mode obs
0E15CF58	28-Jun-07	179	13:46	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:00:43	Vehicle back to Reference Pt
0E15D96C	28-Jun-07	179	14:29	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:04:47	WindSat spin-up
0E161C80	28-Jun-07	179	19:16	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:04:44	SSR indices re-synched
0E17B0C0	30-Jun-07	181	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal, repeat due to lost data
0E17C95C	30-Jun-07	181	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0E17E1F8	30-Jun-07	181	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0E17FA94	30-Jun-07	181	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:03:09	resume normal obs
0E1826E0	30-Jun-07	181	8:24	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:03:09	Coriols SAFEHOLD; Star Tracker
0E18532C	30-Jun-07	181	11:33	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:09:55	Coriols SAFEHOLD; Star Tracker
0E1B81A0	2-Jul-07	183	21:28	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:02:32	Coriols IMU anomaly; vehicle to B-dot, then Sun Pt; WindSat uncontrolled spin-down
0E1E4640	5-Jul-07	186	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0E1E60DC	5-Jul-07	186	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0E1E7978	5-Jul-07	186	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	data lost due to IMU anomaly
0E1E9214	5-Jul-07	186	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:11:59	resume normal obs
0E1F3A98	5-Jul-07	186	17:14	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:06:46	vehicle to Ref Pt
0E20EB40	7-Jul-07	188	0:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	C3 cal repeated
0E2103DC	7-Jul-07	188	1:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:23:07	resume normal obs
0E2248F0	8-Jul-07	189	0:52	0						-50	0						-50	0						-50	00:01:56	Anomaly: Boot mode
0E226420	8-Jul-07	189	2:48	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:02:25	Reset via SMEI-06B; Memo 550
0E23D79C	9-Jul-07	190	5:13	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:00:04	Coriols SAFEHOLD; Star Tracker
0E23D88C	9-Jul-07	190	5:17	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:09:20	Coriolis B-Dot Mode
0E245BCC	9-Jul-07	190	14:37	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:03:07	Coriolis Sun Point Mode
0E2487A0	9-Jul-07	190	17:44	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:06:16	WindSat spin-up
0E263140	11-Jul-07	192	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0E2649DC	11-Jul-07	192	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0E266278	11-Jul-07	192	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:12:13	C3 cal interrupted due to Coriolis Star Tracker Anomaly
	11-Jul-07	192	15:43	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:04:28	vehicle to Ref Pt
0E289E94	12-Jul-07	193	20:11	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:03:49	Star Tracker soft reset
0E28D440	13-Jul-07	194	0:00	DYN001	1X1	OFF	OFF	OPEN	OFF	-50	1						-50	1						-50	01:00:00	C1 one-day engineering
0E2A25C0	14-Jul-07	195	0:00	1						-50	1						-50	DYN007	1X1	ON	OFF	OPEN	OFF	-50	01:00:00	C3 one-day engineering
0E2B7740	15-Jul-07	196	0:00	1						-50	DYN001	1X1	ON	OFF	OPEN	OFF	-50	1						-50	01:00:00	C2 one-day engineering
0E2CC8C0	16-Jul-07	197	0:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:20:18	resume normal obs
0E2F37B8	17-Jul-07	198	20:18	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:03:42	Star Tracker threshold changed from 5.5 to 5.75; 9 Safehold Trips in the next 22 hrs!
0E2F6BC0	18-Jul-07	199	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:03:30	weekly cal
0E2F9CF8	18-Jul-07	199	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	C2 cal skipped due to Safehold
0E2FB694	18-Jul-07	199	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:11:51	resume normal obs mode, but Coriolis still in Sun Pt
0E305C38	18-Jul-07	199	17:06	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:00:45	Switch from -Roll Star Trkr to +Roll Star Trkr; thresh for both set to 5.5; +Roll ST does not produce quaternions, so vehicle stays in Sun Pt.
0E3309C4	20-Jul-07	201	17:51	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	03:08:36	Return to -Roll ST; extend timeout to 9.5 hours; begin Ref Pt/Sun Pt "cycling"
0E377734	24-Jul-07	205	2:27	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:01:33	Emergency mode; vehicle to B-dot due to eclipse, WindSat despun
0E378D00	24-Jul-07	205	4:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:20:00	Vehicle returned to Sun Pt
0E38A640	25-Jul-07	206	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0E38BEDC	25-Jul-07	206	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0E38D778	25-Jul-07	206	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0E38F014	25-Jul-07	206	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:12:15	resume normal obs mode, but Coriolis still in Sun Pt
0E3990C8	25-Jul-07	206	17:30	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:01:39	**Vehicle returned to Reference Pt!** Star Tracker functioning after power cycle.
0E3C568C	27-Jul-07	208	19:09	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:03:22	Coriolis -5 deg Roll offset
0E3C85E4	27-Jul-07	208	22:31	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:29	Corilis return to nominal attitude
0E3C9AC0	28-Jul-07	209	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	repeat weekly cal
0E3CB35C	28-Jul-07	209	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0E3CCBF8	28-Jul-07	209	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0E3CE494	28-Jul-07	209	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:09:41	resume normal obs mode
0E400FC0	30-Jul-07	211	14:56	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:02:00	WindSat spin-up to 0.3 RPM to investigate W/S-induced glint in Star Tracker--none found.
0E402BE0	30-Jul-07	211	16:56	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	04:11:04	WindSat spin-up to 31.6RPM (nominal rate)

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				Camera 1							Camera 2							Camera 3								
Rev # or UTC (hex)	Date	JD	Time (Zulu)	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Obs Duration (DD:HH:MM)	Comments
0E460D80	4-Aug-07	216	4:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:12:14	Anomalous SOH telem: all T, I, V's static; frame counters & images good.
0E465C88	6-Aug-07	218	16:14	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:07:46	DHU reset via SMEI-06B; Memo 601
0E4B1B40	8-Aug-07	220	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0E4B33DC	8-Aug-07	220	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0E4B4C78	8-Aug-07	220	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0E4B6514	8-Aug-07	220	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	resume normal obs mode
0E5455C0	15-Aug-07	227	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0E546E5C	15-Aug-07	227	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0E5486F8	15-Aug-07	227	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0E549F94	15-Aug-07	227	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:45	resume normal obs mode
0E5D9040	22-Aug-07	234	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	pre-anneal / weekly cal
0E5DA8DC	22-Aug-07	234	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0E5DC178	22-Aug-07	234	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0E5DDA14	22-Aug-07	234	5:15	4	4X4	ON	ON	OPEN	OFF	100%	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	100%	00:17:39	C1&C3 HOT ANNEAL - 100%, 12hrs
0E5ED248	22-Aug-07	234	22:54	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:01:06	Anomaly: No Images
0E5EE1C0	23-Aug-07	235	0:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:05:15	C3 post-anneal cal
0E5F2B94	23-Aug-07	235	5:15	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	C1 post-anneal cal
0E5F4430	23-Aug-07	235	7:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:07:55	resume normal mode obs
0E5FB384	23-Aug-07	235	14:55	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:17:15	DHU Reset via SMEI-06B; Memo 605
0E60A618	24-Aug-07	236	8:10	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:09:35	Anomaly: corrupted images
0E612CDC	24-Aug-07	236	17:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	02:16:55	DHU Reset via SMEI-06B; Memo 606
0E64BDC0	27-Aug-07	239	10:40	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:09:55	Anomaly: corrupted images
0E654934	27-Aug-07	239	20:35	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:03:25	DHU Reset via SMEI-06B; Memo 607
0E66CAC0	29-Aug-07	241	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0E66E35C	29-Aug-07	241	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0E66FBF8	29-Aug-07	241	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0E671494	29-Aug-07	241	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	06:18:30	resume normal obs mode
0E7001BC	4-Sep-07	247	23:45	0						-50	0						-50	0						-50	00:00:15	Anomaly: BOOT mode
0E700540	5-Sep-07	248	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal--->no data
0E701DDC	5-Sep-07	248	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	--->no data
0E703678	5-Sep-07	248	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	--->no data
0E704F14	5-Sep-07	248	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:00:14	resume normal obs mode--->no data
0E70525C	5-Sep-07	248	5:29	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	01:18:31	DHU reset via SMEI-06B; Memo 612
0E72A840	7-Sep-07	250	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal - repeat
0E72C0DC	7-Sep-07	250	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0E72D978	7-Sep-07	250	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0E72F214	7-Sep-07	250	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	04:18:45	resume normal obs mode
0E793FC0	12-Sep-07	255	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0E79585C	12-Sep-07	255	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0E7970F8	12-Sep-07	255	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0E798994	12-Sep-07	255	5:15	1						-50	1						-50	DYN013	1x1	ON	ON	OPEN	OFF	-50	00:00:10	DYN013 10-min Mask Test
0E798BEC	12-Sep-07	255	5:25	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:05:35	resume normal mode obs (C3 in DYN014)
0E78DA70	12-Sep-07	255	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:12:45	old auto-reset switched C3 back to DYN010
0E7A8DBC	12-Sep-07	255	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	05:09:24	auto-reset updated to implement C3 DYN014
0E81A96C	18-Sep-07	261	9:09	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:09:36	Coriolis ACS anomaly; SV to B-dot; WindSat despun; IMU initiated during SAA transit
0E82306C	18-Sep-07	261	18:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:05:15	SV back to Ref Pt.
0E827A40	19-Sep-07	262	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0E8292DC	19-Sep-07	262	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0E82AB78	19-Sep-07	262	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0E82C414	19-Sep-07	262	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:02:01	resume normal obs mode
0E82E070	19-Sep-07	262	7:16	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:12:59	Coriolis ACS anomaly; SV to B-dot; IMU initiated during SAA transit
0E839704	19-Sep-07	262	20:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	05:09:45	SV back to Ref Pt.
0E8AB7A0	25-Sep-07	268	6:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:18:00	Anomaly: skymap striation in C1, C2
0E8BB4C0	26-Sep-07	269	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0E8BCD5C	26-Sep-07	269	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0E8BE5F8	26-Sep-07	269	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0E8BFE94	26-Sep-07	269	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:14:55	resume normal obs mode
0E8CD058	26-Sep-07	269	20:10	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	06:03:50	DHU reset via SMEI-07B, Memo 629
0E94EF40	3-Oct-07	276	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0E9507DC	3-Oct-07	276	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0E952078	3-Oct-07	276	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	

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				Camera 1							Camera 2							Camera 3								
Rev # or UTC (hex)	Date	JD	Time (Zulu)	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Mode	CCD Bin'g	ROI	FF Corr e-ction	Shutter Position	FF LED	De-Icer set pt.	Obs Duration (DD:HH:MM)	Comments
0E953914	3-Oct-07	276	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	04:05:09	resume normal obs mode
0E9AC780	7-Oct-07	280	10:24	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:06:16	Anomaly: no valid images
0E9B1FA0	7-Oct-07	280	16:40	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	02:07:20	DHU reset via SMEI-07B, Memo 633
0E9E29C0	10-Oct-07	283	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	pre-anneal / weekly cal
0E9E425C	10-Oct-07	283	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0E9E5AF8	10-Oct-07	283	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0E9E7394	10-Oct-07	283	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	100%	00:12:00	C3 HOT ANNEAL - 100%, 12hrs
0E9F1C54	10-Oct-07	283	17:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:06:45	anneal ends
0E9F7B40	11-Oct-07	284	0:00	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:05:15	C3 post-anneal cal
0E9FC514	11-Oct-07	284	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	01:05:45	resume normal obs mode
0EA16770	12-Oct-07	285	11:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:07:25	Anomaly: invalid telemetry
0EA1CFBC	12-Oct-07	285	18:25	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	04:05:35	DHU reset via SMEI-07B, Memo 636
0EA76440	17-Oct-07	290	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0EA77CDC	17-Oct-07	290	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0EA79578	17-Oct-07	290	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0EA7AE14	17-Oct-07	290	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	06:18:45	resume normal obs mode
0EB09EC0	24-Oct-07	297	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0EB0B75C	24-Oct-07	297	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0EB0CFF8	24-Oct-07	297	3:30	1	90					-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0EB0E894	24-Oct-07	297	5:15	4	90	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	06:06:45	resume normal obs mode
0EB93080	30-Oct-07	303	12:00	0							0							0							00:03:00	Anomaly: inadvertent reset, SMEI in BOOT
0EB95AB0	30-Oct-07	303	15:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN010	2x2	ON	OFF	OPEN	OFF	-50	00:08:45	DHU reset, mistakenly by SMEI-06B, C3 in DYN010
0EB9C5BC	30-Oct-07	303	23:45	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	00:00:15	Auto-reset returns C3 to DYN014
0EB9D840	31-Oct-07	304	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0EB9F1DC	31-Oct-07	304	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0EBA0A78	31-Oct-07	304	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0EBA2314	31-Oct-07	304	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	04:16:05	resume normal obs mode
0EC04B40	4-Nov-07	308	21:20	0							0							0							00:03:40	Anomaly: inadvertent reset, SMEI in BOOT
0EC07EC0	5-Nov-07	309	1:00	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	01:23:00	DHU reset via SMEI-07B, Memo 636
0EC213C0	7-Nov-07	311	0:00	DYN000	1x1	OFF	OFF	CLOSED	OFF	-50	1						-50	1						-50	00:01:45	weekly cal
0EC32C9C	7-Nov-07	311	1:45	1						-50	DYN000	1X1	OFF	OFF	CLOSED	OFF	-50	1						-50	00:01:45	
0EC344F8	7-Nov-07	311	3:30	1						-50	1						-50	DYN011	1X1	ON	OFF	CLOSED	OFF	-50	00:01:45	
0EC35D94	7-Nov-07	311	5:15	4	4X4	ON	ON	OPEN	OFF	-50	4	4X4	ON	ON	OPEN	OFF	-50	DYN014	2x2	ON	ON	OPEN	OFF	-50	#VALUE!	resume normal obs mode
FF43E4F240		-39082																							31:00:00	

Non-standard Operation	*Camera*	*Mode #*	*Frequency*	*Constraints*	*Primary Data Analyst*
Weekly Calibration	all	DYN000	every week	floating temps	J. Tappin
2-day Engineering Mode Observation	all	DYN001	every 2 month	no moon in FOV, floating temps	A. Buffington
High Flat Field Calibration	all	13	every 4 months	floating temps	A. Buffington

Prepared by Jessica Hewitt and Paul Holladay